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Seat	Sat	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

			Agrochemical and Pest M Analysis of Agroche	_
•			day, 17-02-2023 To 02:00 PM	Max. Marks: 80
nstr	uctio	2	Question no. 1 and 2 are compulsory. Attempt any three questions from Q. No Figure to right indicate full marks.	No. 3 to Q. No. 7
Q.1	A)	Mult i 1)	,	10 erty of SO ₂ ? Odourless Polar molecule
		2)	•	at aboutcm ⁻¹ 2730 - 2700 1650 - 1600
		3)	,	rations are observed in IR of 3 15
		4)	,	Mercury Electrode. Platinum DME
		5)	, ,	escence indicator? Methyl orange Eriochrome Black-T
		6)	,	
		7)	,	edium acts as phase. Mobile Organic
		8)	,	coupling. Vicinal None of these
		9)	,	ow neutrons, the mass number Two One
		10)		rd to our body. Psychological Biological

	B)	 Fill in the blanks. 1) In NMR spectroscopy, the multiplicity of peak due to proton on adjacent carbon atom is given by rule. 2) In mass spectrometer beam is used for ionization of gaseous molecules. 3) In mass spectroscopy, base peak has assigned the intensity. 4) The fluorescence intensity does not depend upon 5) In Ilkovic equation, n stands for 6) In benzoic acid sets of proton are present. 	06
Q.2	a) b) c)		16
Q.3	a)	9	16
Q.4	a)	wer the following. Write applications of neutron activation analysis. Write applications of polarography in analysis of Agrochemicals.	16
Q.5	a)	Explain principle and instrumentation of HPLC. Describe types of electronic excitations in UV spectroscopy.	16
Q.6	Ans a) b)	Describe types of vibrations in IR spectroscopy. Draw NMR spectra of acetophenone and 2- butanone.	16
Q.7	a)	Describe functional group region and finger print region in IR spectroscopy. Describe various types of ions in mass spectroscopy.	16

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Seat	Cat	D
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	M.	Sc. (Sen	nester - III) (New) (0 APPLIE			amination: Oct/Nov-2022 OGY	
				Research	n Metho	od	ology	
_				17-02-2023 02:00 PM			Max. Marks	: 80
Inst	ructio	2) Att	estion no. 1 and 2 are of empt any three question pure to right indicate full	ns from (•		
Q.1	A)	Mult 1)	you a) b) c)	choice questions. nich of the following requir institution? Whether an abstract so the format for referent The size of the study All of the above	should be		or a dissertation may depend on cluded	10
		2)	a) b)	work negotiate access to the	: port, gui le resear	da ch	nce and critical feedback on your setting on the student's behalf	
		3)	The a) b) c)	e F-test: Is essentially a two-ta Is essentially a one-ta	iled test iled test well as tv		-tailed depending on the	
		4)		nat is the shortcut key fo Ctrl + K Ctrl + I	or find in b) d)		crosoft word document? Ctrl + G Ctrl + F	
		5)	a) b)	nich of the following is re Books Journal, magazine an Internet clipping All the above	J			
		6)	nur for a)		ine-read	lab	(ISBN)' is a digit unique le identification number meant Thirteen Eleven	
		7)	On a) c)	_	an open b) d)		ource software: Windows Linux	

	8)				entio	n more than four authors of a	
		a)	at al	- - -	b) d)	et all et al	
	9)	a)	Citation Index		b) d)	A Bibliography All of the above	
	10)	a)	Quantitative	a type c			
B)	Fill ii 1) 2) 3) 4) 5) 6)	The Fie Inte (Tr CT A re	e first page of the reseld analysis is a type of the reservational Standard	search roof self-ro Serial No y to Ope ork.	eport eport umbe en a _	ing technique? (True/false) r (ISSN) consists of 10 digits document is MS-Word?	06
a) b) c)	h-Index MS-Power point ISBN number						
a)	What	is in	npact factor? How is	•	factoı	is calculated?	16
a)	What	is m	eant by data collection	on? Giv	e diff	erent methods of data collection.	16
a)	Write	an e	essay on coral draw.				16
	What What	is e- do y	resources? Discuss ou mean by Researd				16
a)	Discu	ss c	haracteristics and typ			ch objectives.	16
	An: a) b) c) d) An: a) b) An: a) b) An: a) b) An: a)	9) 10) B) Fill i 1) 2) 3) 4) 5) 6) Answer t a) h-Inde b) MS-P c) ISBN d) Purpo Answer t a) What b) Give a Answer t a) What b) Write Answer t a) Write b) Write Answer t a) What b) Write Answer t a) What b) Write Answer t a) Discussion	9) "W a) c) 10) Mo a) c) 10) Mo a) c) B) Fill in the 1) The 2) Fie 3) Inte (Tr 4) CT 5) A r 6) Ho Answer the fe a) h-Index b) MS-Powe c) ISBN num d) Purpose of Answer the fe a) What is in b) Give a full Answer the fe a) Write an e b) Write full in Answer the fe a) What is e- b) Write full in Answer the fe a) What is e- b) Write full in Answer the fe a) What is e- b) Write full in Answer the fe a) What is e- b) Write full in Answer the fe a) Discuss of	research work to be cite a) at al c) ot all 9) "Web of Science" is a) Citation Index c) An Abstracting Serv 10) Motivation Research is a) Quantitative c) Pure B) Fill in the blanks OR Write 1 1) The first page of the res 2) Field analysis is a type 3) International Standard S (True/False) 4) CTRL+N is Shortcut key 5) A report is an wo 6) How to judge the depth Answer the following a) h-Index b) MS-Power point c) ISBN number d) Purpose of literature review Answer the following. a) What is impact factor? How is b) Give a full account on search of Answer the following. a) What is meant by data collection b) Write a full note on MS-Excel. Answer the following. a) Write an essay on coral draw. b) Write full note on key word. Answer the following. a) What is e-resources? Discuss b) What do you mean by Research Problem? Answer the following. a) Discuss characteristics and type Answer the following. a) Discuss characteristics and type	research work to be cited? a) at al c) ot all 9) "Web of Science" is	research work to be cited? a) at al b) c) ot all d) 9) "Web of Science" is	research work to be cited? a) at al c) ot all d) et al 9) "Web of Science" is a) Citation Index b) A Bibliography c) An Abstracting Service d) All of the above 10) Motivation Research is a type of research. a) Quantitative b) Applied c) Pure d) Qualitative B) Fill in the blanks OR Write True/False: 1) The first page of the research report is 'Title page'. (True/false) 2) Field analysis is a type of self-reporting technique? (True/false) 3) International Standard Serial Number (ISSN) consists of 10 digits. (True/False) 4) CTRL+N is Shortcut key to Open a document is MS-Word? 5) A report is an work. 6) How to judge the depth of any research? Answer the following a) h-Index b) MS-Power point c) ISBN number d) Purpose of literature review Answer the following. a) What is impact factor? How is impact factor is calculated? b) Give a full account on search engine. Answer the following. a) What is meant by data collection? Give different methods of data collection. b) Write a full note on MS-Excel. Answer the following. a) Write an essay on coral draw. b) Write full note on key word. Answer the following. a) What is e-resources? Discuss various types of e-resources. b) What do you mean by Research Problem and how can you identify the Research Problem? Answer the following. a) Discuss characteristics and types of research objectives.

Seat	Sat	D
No.	Set	P

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		•	PHYSICS (APPLIED ÉLECTRONICS) Communication & Digital Electronics
-			nday, 17-02-2023 Max. Marks: 8 To 02:00 PM
Insti	uctic	2)	Question no. 1 and 2 are compulsory. Attempt any three questions from Q. No. 3 to Q. No. 7. Figure to right indicate full marks.
Q.1	A)	M ulti 1)	ple choice questions. Which type of antenna is used for edge excited cells? a) Omni-directional antenna b) Grid antenna c) Sectored directional antenna d) Dipole antenna
		2)	The expression Y= (A+B) (B+C)(C+A) shows the operation. a) AND b) Product of sum c) Sum of product d) NAND
		3)	Modulation index is denoted as a) μ b) θ c) Φ d) Ω
		4)	Abbreviate PSK? a) Phase Shift Keying b) Phase Side Keying c) Push Shift Keying d) Push Side Keying
		5)	Which of the following are the multiplexing techniques used in GSM? a) FDMA b) TDMA c) FDD d) All the above
		6)	Which frequency band does the direct broadcast satellite system use? a) C band b) X band c) Ku band d) MF band
		7)	TDMA is a multiple access technique that has a) Different users in different time slots b) Each user is assigned unique frequency slots c) Each user is assigned a unique code sequence d) Each signal is modulated
		8)	Which of the following are the GSM network systems? a) Switching system b) Mobile station c) Base station system d) All of these
		9)	In different types of Pulse Width Modulation a) Leading edge of the pulse is kept constant b) Tail edge of the pulse is kept constant c) Centre of the pulse is kept constant d) All of the above

		10)	a)	process of Modulation Phasing		ucting bac b) d)		ne original signal is called Demodulation None of the above	
	B)	State 1) 2) 3) 4) 5) 6)	Blue Med ear In H cell The The	dium earth th. Hand-off te and the c double co area cov	pports anal orbit is 36 echnique th all in progrompliment ered by CI use of com	5,000 km a ne mobile n ress has to of A is equ DMA is larg	nov be ual	obile communication. y from the geocenter of the yes from the original cell to a new e continued smoothly. to A. compared to TDMA. atellites is in long-distance	06
Q.2	a) b) c)	Descr Descr Write	ibe s ibe b a no	te on Wi-F	uency reus i.	•		cellular system. on and truth table.	16
Q.3	a)	With a 1) A 2) FExplair 1) F	nea AM FM	e following		plain the fo	lov	ving analog modulation technique.	16
Q.4	a)	Explai demei	n dif its.	•				ion system with its merits and of GSM technology.	10 06
Q.5	a)	What transp	is sa ond	er.		n? With a i		at block diagram, explain satellite	10 06
Q.6	a)	Conve 1) (2) (ert th Conv	vert 123 ₁₀ vert 85 ₁₀ to	to binary b binary	number to theorem v		ary. i its truth table.	10 06
Q.7	Ans	swer th What Explai 1) \	ne fo is log n the WiM	ollowing. gic gate? I e following	Explain diff			th its classification	10 06

Seat	Sat	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		`		Ć BIÓSTAT Applied S			
				17-02-2023 02:00 PM		Max.	Marks: 80
Insti	ructio	2) Att	nestion no. 1 and 2 are complement any three questions frogure to right indicate full man	om Q	•	
Q.1	A)	Mult i 1)	Sa a) b) c)	choice questions. mpling frame is a term used A list of random numbers A list of voters A list of sampling units of a Census survey			10
		2)		ts with replacement is		size n from a population of size \mathbb{N}^n	ze N
		3)	ter a)	∞ e component of a time serie med as cyclic variation irregular variation	d) es atta b) d)	N!ched to long-term variation issecular variationconstancy	
		4)	Mo a)	•	rage f	or index numbers is Geometric mean None of the above	
		5)	tes a)		b)		rsal
		6)	a) b) c)		vith re vithou DR	t replacement (SRSWOR)	.
		7)	ma a)	simple random sampling wit by be included in the sample Only once More than once		acement, the same sampling Only twice Hundred times	unit
		8)	a)	e faults due to assignable ca Can be removed Cannot removed Can sometimes be remove		·	

d) Impossible to remove

		9)	The geometric mean of Laspeyre's and Paasche's price indices is also known as a) Cost of living index b) Fisher's price index c) Either cost of living index or Fisher's index d) Neither cost of living index nor Fisher's index					
		10)	The value of Net Reproduction Rate (NRR)>1 is indicative of a) Increase in population b) Reduction in population c) Constancy in population d) All of the above					
	B)		True / False.	06				
		1)	The increase in sales of a departmental store on Dushera and Diwali are associated with the seasonal component of time series.					
		2)	The sample should always be 5% of the total population.					
		3)	The variation due to manmade reasons is called as assignable cause variation.					
		4)	Increase in prices of Air Conditioners in Summer is an example of cyclical variation of time series.					
		5)	Base year for Index numbers should be an year in which flood or					
		6)	earthquake has occurred.					
		6)	Chance causes can be completely removed from the process.					
Q.2	An	swer th	ne following	16				
	a) Explain time reversal test for index numbers.							
	•	•	n non-sampling errors.					
	c) d)		a note on life tables.					
	u)	Explai	n factor reversal test for index numbers.					
Q.3			ne following.	16				
	a)		is cost of living index number? Explain its uses. Describe the					
	h۱	•	dure followed in its construction. n the advantages of sampling. Also explain simple random sampling					
	D)	-	eplacement as well as simple random sampling without replacement.					
Q.4	An		ne following.	16				
	a)	What compo	is time series? Describe in brief its components. Give example of each					
	b)		n, in detail, stratified random sampling. Discuss the allocation problem					
	,		s method.					
Q.5	An	swer th	ne following.	16				
	a)	Discus	ss the below methods for measurement of trend.					
		,	oving average method rogressive Average method					
	b)		n the construction of mean and range control charts, giving formulae					
	,	for up	per and lower limits in both cases when sample means and sample sare given.					

Q.6	Answer	the	follo	owina.
— :-	<i>,</i>	••••	. •	

- a) Explain the terms:
 - 1) Crude Death Rate
 - 2) Specific Death Rate
 - 3) Standardized Death Rate
 - 4) Total Fertility Rate
 - 5) Crude Birth Rate
- **b)** Explain the need of base shifting for index numbers. Also explain how base shifting is carried out.

Q.7 Answer the following.

16

16

- a) Discuss the c chart for number of defects per unit.
- **b)** Define the following index numbers:
 - 1) Laspeyre's index number
 - 2) Paasche'S index number
 - 3) Fisher's index number

Seat	Set	D
No.	Set	F

M.Sc. (Sem-III) (New) (CBCS) Examination: Oct/Nov-2022 BIOTECHNOLOGY

				BIOTECHN Advanced Phari				
-	Day & Date: Friday, 17-02-2023 Max. Marks: 80 ime: 11:00 AM To 02:00 PM							
Instr	uctic	2)) Att	estion no. 1 and 2 are complempt any three questions froure to right indicate full mark	m Q.	•		
 Q.1 A) Multiple choice questions. 1) Which kind of molecules cannot pass through a pore transport? a) Low Molecular weight molecules b) Water-soluble drugs c) Molecules up to 400 Dalton d) Molecules greater than 400 Dalton 				ort?	10			
		2)	a)	nich one of these is a physico Drug solubility Age of patient	ocher b) d)	nical property of Drug s Disintegration time Dissolution time	ubstance?	
		3)	of o	nich one of these does not co drugs? Drug solubility Dissolution rate	bme u b) d)	inder a physicochemica Disintegration time Drug stability	al property	
		4)	of t	tient-related factors of drug a hese? Age Intestinal transit time	b) d)	ption do not deal with w Gastric Emptying time Pharmaceutic ingredie	:	
		5)	a)	nich of the following is not a for Paracetamol Lubricants	orm (b) d)	of excipients? Disintegrants Binders		
		6)	tim	nich phase in clinical develop e and money? Phase I Phase III	ment b) d)	is the largest investme Phase II Phase IV	ent of both	
		7)		rpose of Phase 1 clinical trial To identify a target populati To select a lead compound To establish the safety of a To test whether the propose	on from dmin	istration to humans		
		8)	Wha) b) c) d)	nich method is implemented i Combinatorial chemistry Medicinal chemistry High throughput screening All of the above	n lea	d compound screening	?	

		9)	What is the function of a granulating agent in drug formulation? Promote cohesive compacts Added if the required dosage is inadequate so that necessary bulk can be produced Tablets can disintegrate easily Used as solubilizer		
		10)	Which tablets have longer Disintegration time? a) Single coated tablets b) Uncoated tablets c) Sugar-coated tablets d) Capsules		
	B)	Fill ir 1)	in the blanks OR Write true/false. Disintegration time is directly proportional to the amount of binder present in the tablet. a) True b) False	06	
		2)	Greater the surface area lesser is the dissolution. a) True b) False		
		3)	Diffusion coefficient of drug D, Greater the value faster is the dissolution.		
		43	a) True b) False		
		4)	A drug can be absorbed by more than one mechanism a) True b) False		
		5)	Particle size can be determined by optical microscopy method. a) True b) False		
		6)	Miceller are spherical amphiphilic structure having hydrophobic and hydrophilic shell. a) True b) False		
Q.2	a) b) c)	Define What How o	the following The Drug. The Bio-Availability of a drug? The Biological drug targets.	16	
Q.3	Ans a) b)	How of	the following. does particle size affect the solid, liquid and gaseous phase of drugulation? Inote on Drug Vs. Vaccine.	16	
Q.4	Ans a) b)	What	the following. is Lipinski Rule of Five and its applications in drug development? ribe in detail about solubility of drugs and its parameters.	16	
Q.5	Ans a) b)	Write	the following. a note on the process of drug discovery and development. ribe pharmacokinetics in detail.	16	
Q.6	Ans a) b)	Explai	the following. ain different types of drug formulations. ribe the role of drug particle size in pharmaceuticals.	16	
Q.7	Ans a) b)	Swer the following. Describe phase I & II in clinical trials. Describe biological implications of surfactants.			

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Seat	Sat	D
No.	Set	F

M.Sc. (Sem-III) (New) (CBCS) Examination: Oct/Nov-2022

			BIOTECHN	10LC	OGY	
		Co	mputational Structure Bio			
•			day, 17-02-2023 To 02:00 PM		Max. Marks: 80)
Instr	uctio	2)	Question no. 1 and 2 are comp Attempt any three questions fro Figure to right indicate full mar	om Q		
Q.1	A)	Multi 1)	ple choice questions. Ionic interaction between prote a) Stable c) Covalent	ein-pro b) d))
		2)	X-ray diffraction is a det interaction. a) In vivo c) In situ	tectior b) d)	•	
		3)	is the major drug-meta a) CYP2D6 c) Oxidase		ng enzyme. CYP3A4 CYP2C19	
		4)	FDA approval of drugs are obta a) I c) III	ained b) d)	after phase of clinical trials. II IV	
		5)	Relationships between chemic quantitative manner can be pre a) QSPR c) QSTR			
		6)	PDB gives structures. a) Protein & ligand c) Only ligand	b) d)	Only protein Only DNA	
		7)	is a biological pathway a) GenBank c) DDBJ	datal b) d)	base. MINT SwissProt	
		8)	provides active site Protein Data Bank. a) EAS c) CSA	residu b) d)	ue annotation for enzymes in the ASR ATLAS	
		9)	route of administration of a) Oral c) Intra muscular	does r b) d)	notrequire drug absorption. Intravenous Intraperitonial	
		10)	a) Autodock c) SWISSDOCK	dockii b) d)	ng tool. HADDOCK ChemDOCK	

	B)	Fill in the blanks OR Write true/false. 1) "Y2H" system is developed in organism. 2) The amino acids connects the two alpha helical structure is called	06
		3) Major and minor grooves are found in 4) ProTox tool is used for 5) PyMol is tool. 6) What body does to a drug is called	
Q.2	a) b) c)	swer the following Write a note on protein – protein interaction. Describe in detail about KEGG database explain in detail Chou – Fasman method for protein structure prediction. Write a note on types of RNA structure.	16
Q.3	a)	swer the following. Explain the structure based and ligand based drug design. Write a note on Metalloproteins.	10 06
Q.4	a)	swer the following. Explain different phases of clinical trials. Describe the QSAR in detail.	10 06
Q.5	a)	swer the following. Explain the steps involved in homology modeling. Describe the mutation in drug targets.	10 06
Q.6	a)	swer the following. What is protein 3D structure? Explain various protein 3D structure validation tools What is pharmacodynamics? Explain pharmacodynamics properties.	10 06
	•		00
Q.7	a)	swer the following. Explain the steps involved in <i>in-silico</i> drug discovery process. Describe molecular docking process in detail.	10 06

Seat	Set	D
No.	Set	

M.Sc. (Semester-III) (New) (CBCS) Examination: Oct/Nov-2022

	IVI	. (BOTA	-	Callillation. Oct Nov-2022
			Plant growth and		velopment velopment
-			day, 17-02-2023 To 02:00 PM		Max. Marks: 80
Insti	ructio	2	Question no. 1 and 2 are comp Attempt any three questions fro Figure to right indicate full mark	om Q.	5
Q.1	A)	Multi 1)	ple choice questions. Brassinosteroids were first isola grains of		from the bee-collected pollen
			a) B. campestrisc) B. oleracea	b) d)	B. napus B. species
		2)	Antigibberellins such as CCC fi a) food industry c) floriculture industry	nd ex b) d)	
		3)	has become an importar biologists in recent years. a) Arabidopsis thaliana c) Solanumtuberosum	b)	
		4)	In plants, the richest source of a) leaves c) light grown seedling	•	ochrome is
		5)	a plant growth regulatora) Batassinsc) Salicylic acid	is als b) d)	•
		6)	Monocarpic senescence is see a) mango c) pomegranate	n in _ b) d)	coconut bamboo
		7)	a) Ca++ c) c GMP	senge b) d)	er. C AMP ABA
		8)	Blue light responses are media a) phytochrome c) carotenoids	ted th b) d)	nrough cryptochrome anthocyanin
		9)	Programed cell death is scientification automy c) apoptosis	fically b) d)	known as cell lysis none of these
		10)	is a fruit ripening hormonal Cytokinin c) Gibberllins	one. b) d)	Ethylene Auxin

	B)	True or False.	06
		1) Abscisic acid plays important role during stomatal closing	
		 During senescence Expression of senescence associated ger (SAGs) decreases. 	es
		 Polyamines are synthesized from two amino acids like Lysine 	and
		Arginine.	
		4) P _r form of phytochrome pigment absorbs red light.	
		5) During seed germination starch is hydrolyzed first into maltose) .
		6) Tobacco is a short day plant.	
Q.2	Ans	swer the following	16
·	a)	Give role of TIBA	
	•	Role of auxins in plants	
		Write a note on morphactins.	
	d)	Metabolism of stored seeds	
Q.3	Ans	swer the following.	16
	a)	Explain in brief discovery and role of Jasmonate.	
	b)	Give an account of discovery, properties and role of cryptochrome in	plants.
0.4	Λ	awar tha fallowing	16
Q.4	ans	swer the following. Describe in brief triacontanol.	10
	•	Describe in brief secondary messengers.	
	,	3 · · · · · · · · · · · · · · · · · · ·	
Q.5		swer the following.	16
	a)	Describe the biochemical and physiological changes during fruit riper	ing.
	D)	Explain signaling mechanism of cytokinin in plants.	
Q.6	Ans	swer the following.	16
	a)	Explain biosynthesis and role of ethylene in plants.	
	b)	What are Plant growth retardants? Explain role of Maleic hydrazide.	
0.7	Α	annan tha a fallannin n	40
Q.7	ans	swer the following. Explain role of mutants in physiological studies with reference to <i>Aral</i>	16
	aj	thaliana.	παυμσισ
	b)	Describe the physiological and biochemical changes during senesce	nce of
	,	leaves.	

Seat	Set	D
No.	Set	

	IVI	.SC. (Sei	nester-iii) (New) (CBCS BOTA	•	ammation. Oct/Nov-2022		
	Herbal and Drug technology							
-	Day & Date: Friday, 17-02-2023 Max. Marks: 80 Time: 11:00 AM To 02:00 PM							
Instr	uctic	2)	Atte	estion no. 1 and 2 are complempt any three questions froure to right indicate full mark	m Q.			
Q.1	A)	Multi	ple	choice questions.		10		
		1)	a)	ere are types of Veda one three	s. b) d)	two four		
		2)	a)	nchmahabhuta & Tridosha th Homeopathy Unani system	•	is related to Aromatherapy Ayurveda		
		3)	a)	hest source of vitamin C is _ Capsicum fruitescence Citrus sinensis	b) d)	Emblica officinalis Citrus limon		
dyse a)			dys a)	of juice of which plant is give sentery & dyspepsia & also u Pan AK				
		5)	a)	croscopic methods include _ Shape & Size Cellular structure	b) d)	 Total ash value Water solubility		
		6)	a)	een capacity is NOT a funct atmospheric humidity screening mechanism	b)	screening surface it's opening size		
		7)	Wh a) c)	ich of the following can be u Elutriator Drag classifier	sed for b)	or separation of pulp? Cone classifiers Liquid cyclone		
8) The efficiency of filtration increases if a) Filter aid is added to the slurry b) The compressibility of solids is high c) Size distribution of solids is wide in slurry d) Filter medium is used			igh					
				ces?	es gre b) d)	eatly enhances the separation Centrifugal forces Van der Waals forces		
		10)	me	our, odour & taste of the dru thod? Alphabetical Pharmacological	,	ong to which type of evaluation Chemical Morphological		

	B)	Fill in the blanks. 1) The traditional healer who practices the Unani system is termed	06
		as Removal of soluble constituents from solid or liquid with help of a suitable solvent is called	
		 The solvent used for extraction is known as The part of the Plant can be used for the treatment of toothache. 	
		5) The spacing between two bars in medium size screen ranges from 6) Tollen's test is used for phytochemical test of	
Q.2	a) b) c)	wer the following Describe preparation and standardization of Asawas & Aristas What are the chemical constituents and uses of Azadirechta indica? What are the differences in between crushing & grinding operations? Define Drug evaluation and add a note on biological drug evaluation methods.	16
Q.3	a)	wer the following. Define herb and explain processing of herbal raw material. What are Grinders and describe different types of Grinders?	16
Q.4		wer the following. Explain electrostatic and magnetic stirrer. What are the basic principles involved in Siddha and Unani Indian system of medicines?	16
Q.5	a)	wer the following. Explain morphology, systemic, useful parts, chemical constituents and uses of <i>Curcuma longa</i> . Write the preparation and standardization of Lehya and Bhasma.	16
Q.6	Ans a) b)	wer the following. Explain in detail centrifugation and sedimentation. Define chromatography and explain Paper chromatography.	16
Q.7	Ans a) b)	wer the following. Write down the phytochemical screening test for Terpenoids and flavonoids. Define distillation and explain in brief vacuum distillation.	16

Seat	Set	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

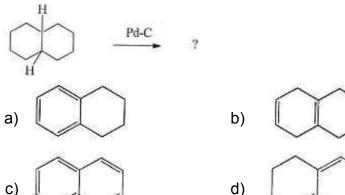
		(TER SCIE		
•			Fundamenta day, 17-02-2023 To 02:00 PM	I OT WED	Designing Max. Marks	: 80
Inst	ructio	2) Question no. 1 and 2 are) Attempt any three questic) Figure to right indicate ful	ons from Q.		
Q.1	A)	Mult i 1)	iple choice questions. The document's title, do	ument scrip b) d)		10
		2)	When saving a file a) Document c) HTML	you should b) d)	d always give it <i>.htm</i> extension. PowerPoint Word	
		3)		rking specia b)	erners-Lee, who was then working alist at a Swiss research institute. HTML and HTTP TCP/IP	
		4)	The paragraph tag () a) Paragraphs c) Content	is used to d b) d)	lelimit entire of text. Lines Body	
		5)			l levels of headings, you probably our levels in your documents. Six Five	
		6)	The preformatted tag space literally and not to ca) <pre> <pre></pre></pre>		the HTML client to treat white as it usually would. <pre><prefer> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></prefer></pre>	
		7)			to as the of the page, this see in the main browser window. Background Website	
		8)	The attribute is use should mentioned in source a) aref c) href		ct to webpage, where the link Linkref arefere	
		9)	The attribute, indicate a) Src c) Irc	cating the so b) d)	ource of the image. Drc Krc	

		a	are used to create or uestion types. i) Google documents b) Google slides	nline forn b) d)	ns and surveys with multiple Google forms Google drive	
	B)	Write T 1) T 2) G to 3) T 4) G 5) T ki 6) U	Frue / False. The align attribute is still free Google Drive is the storage of the hard drive on compute The <caption> element appeal Google Slide is similar to Mic The two angle brackets and nown as a tag.</caption>	quently u space fo er. ears direc crosoft W all of the	sed with tables. r files online and it's very similar ctly after the opening tag.	06
Q.2	a) b) c)	What is What do Describe	following Website? you mean by HTML? e Google applications for Economics you mean by WWW?	ducation		16
Q.3	Ans a) b)	State an Develop	oment. in detail structure of HTML		of Web in Web Designing and	16
Q.4	a)	What is	following. Internet? Explain in detail v nd explain types of HTML Li		•	16
Q.5		What is applicati	•		e Google slide and its various ole example.	16
Q.6	Ans a) b)	Discuss	following. HTML Image tab and its at in detail working with text us		with suitable example. ML Font tag and its attribute.	16
Q.7	Ans a) b)	What is	, ,		etail components of Google Site. icture of HTML with suitable	16

Seat	Set	D
No.	Set	P

	M	.Sc. (Semester-III) (New) (CBCS) Examination: Oct/No ORGANIC CHEMISTRY Applied Organic Chemistry	ov-2022
,			day, 17-02-2023 To 02:00 PM	Max. Marks: 80
Insti	ructio	2	Question no. 1 and 2 are compulsory. Attempt any three questions from Q. No. 3 to Q. No. 7. Figure to right indicate full marks.	
Q.1	A)	M ulti 1)	ple choice questions. Advantages of Microwave assisted organic synthesis is/are a) Short reaction time b) Less Energy c) Solvent less method d) All of the above	
		2)	Which of the following is Green Solvent? a) Chloroform b) Water c) DMSO d) Both A & B	
		3)	The term mutarotation is related to a) Interconversion of anomers b) conversion of glucose to fructose c) conversion of fructose to glucose d) chain lengthening	
		4)	Glucose + Excess Phenyl Hydrazine ? a) Glucose Phenyl Hydrazone b) Glucosazone c) n-Hexane d) Both a & b	
		5)	Product of the following reaction is: Br 4 Na [0] ?	
			a) b) d)	

6) Product of the following reaction is: _____.



- 7) Supramolecular chemistry has been defined as _____
 - a) Chemistry beyond the molecule
 - b) Chemistry of the large molecule
 - c) Chemistry of the small molecule
 - d) Chemistry of the complex molecule
- 8) Two strands in DNA are held together by _____.
 - a) Covalent bond
- b) Vander Waal's forces
- c) Hydrogen bond
- d) Electrostatic force of attraction
- 9) Two or more binding sites acting in a concerted fashion to produce a combined interaction that is stronger than when the binding sites act independently of each other, is called _____.
 - a) Co-operativity
- b) Solvent effect
- c) Preorganization
- d) Selectivity
- 10) _____ is the term that refers to fixing or limiting the geometry of the molecule to assist in their binding.
 - a) macrocyclic effect
- b) Solvent effect
- c) Preorganization
- d) binding constant

B) Fill in the blanks.

06

- 1) The chemical reaction in which three or more compounds react with each other to form a single product, is known as _____ Reaction.
- 2) Treatment of Fructose with Cone. HCl gives _____.
- 3) ____ is defined as the extra preference on axial orientation of An electronegative substituent at the anomeric carbon atom.
- 4) Benzanthracenes are _____ Fused compound.
- 5) In _____ reaction, polynuclear hydrocarbons are produced from a diaryl ketone containing methyl group in the o-position to the keto group.
- 6) Guest molecule possess _____ binding sites.

Q.2 Answer the following

16

- a) What is mutarotation? Explain with suitable example.
- **b)** Write a note on Epimerisation with suitable example.
- c) Write note on Ionic Liquid.
- d) Explain Multicomponent reaction.

Q.3 Answer the following.

16

- a) Explain the various basic principles of green chemistry.
- **b)** What are glycosides? Explain their conformations of Methyl \propto -D and Methyl β D glycosides.

Q.4 Answer the following.

- a) Explain the Haworth Synthesis of Phenanthrene.
- **b)** What is Cyclodextrin? Write a note on structure, characteristics and applications of Cyclodextrin.

Q.5 Answer the following.

16

16

- **a)** Explain the chelate effect and cooperativity effect in supramolecular chemistry.
- **b)** Explain:
 - 1) Anomeric effect
 - 2) Kiliani-Fischer's synthesis

Q.6 Answer the following.

16

- a) What is molecular recognition? Explain the concept of complementarity.
- **b)** Give one synthesis of each of the following.
 - 1) Napthacene
 - 2) Chrysene
 - 3) Rubrene
 - 4) Hexacene

Q.7 Answer the following.

16

- Explain the Kinetic and thermodynamic selectivity in supramolecular chemistry
- b) Complete the following reaction

i)

iii)

iv)
$$CHO OHC$$
 N_2H_2 ? O_2N NO_2

Seat	Set	P
No.	Set	

M.Sc. (Semester-III) (New) (CBCS) Examination: Oct/Nov-2022

			INDUSTRIAL CHEMISTRY	
			Advanced Topics in Industrial Chemistry - I	
•			day, 17-02-2023 Max. Marks: 80 To 02:00 PM	
Inst	ructio	2) Question no. 1 and 2 are compulsory.) Attempt any three questions from Q. No. 3 to Q. No. 7.) Figure to right indicate full marks.	
Q.1	A)	Mult i 1)	iple choice questions. The tablet may contains along with active drug. a) filler b) binder c) colorant d) all of these	
		2)	A calorific value of a fuel is increases with a) increase in hydrogen content b) increase in moisture c) increase in carbon content d) both a and b	
		3)	In content uniformity test, the uniformity of is determined. a) active content b) filler c) colorant d) flavoring agent	
		4)	The device used for manual sampling of liquid fertilizers is a) Pipette b) measuring bottle c) measuring cup d) all of the above	
		5)	Among the following which is not an essential quality of a good fertilizer? a) it should be stable b) it should readily provide the essential nutrients c) it should damage the plant d) all of the above	
		6)	Aspirin is an drug. a) antipyretic b) antileprocy c) anticancer d) anti HIV	
		7)	The process for developing a pharmacophore model involves a) conformational analysis b) molecular superimposition c) Abstraction d) all of these	
		8)	Which of the following formulation contains more than 85% sugar? a) injection b) syrup c) tablet d) lotion	
		9)	During tablets manufacturing, operations are involved. a) dispensing b) sizing, granulation c) drying, compression d) all of these	
		10)	are alcoholic formulations. a) elixirs b) spirits c) tinctures d) all of these	

	B)	 Write true or false. Benzene, a green solvent is an important industrial solvent used in the production of pharmaceuticals, plastics and dyes. Green chemistry involves 15 principles. The type of the formulation depends upon personality of the patient. The buccal tablets dissolves slowly in the cheek pouch of the mouth. Chloroquine is an antimalarial drug. The syrup are aqueous formulations. 	06
Q.2	Ansa) b) c) d)	Explain the terms half maximal inhibitory concentration (IC ₅₀) and median lethal dose (LD ₅₀). Write any two microwave assisted green synthetic reactions. Discuss with a neat labelled diagram of disintegration test used in pharmacopoeial analysis of tablets. Describe: 1) Aniline point 2) Octane number	16
Q.3	Ans a) b)	Give the role of nitrogen in plants and explain Kjeldahl's method that is used for the determination of nitrogen. Define calorific value and its units. Explain Bomb calorimeter method for the determination of calorific value of a fuel sample.	16
Q.4	a)	Describe drug and its need and explain in detail the pharmacokinetics of the drug. Explain pharmacophore. Describe its model development and applications in detail.	16
Q.5		Discuss in detail the synthesis and pharmaceutical applications of salbutamol and ibuprofen. Describe in short: 1) Prodrug with an example 2) Nuclear receptors	16
Q.6	Ans a) b)	Discuss in detail types of pharmaceutical dosage forms on the basis of route of administration. Define pharmaceutical formulation. Discuss its need and explain various excipients that are added during formulation.	16
Q.7	a)	Discuss in detail the dissolution and content uniformity test of aspirin by HPLC method. Explain in detail the use of ultra-sonication in organic synthesis with suitable examples.	16

Seat No.	Set	P
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M.Sc. (Semester-III) (New) (CBCS) Examination: Oct/Nov-2022 POLYMER CHEMISTRY

			POLYMER CHEM Spectral and Instrumental Ar	
			day, 17-02-2023	Max. Marks: 80
HITTE) . 11.	UU AIV	To 02:00 PM	
Inst	ructio	2	Question no. 1 and 2 are compulsoAttempt any three questions from 0Figure to right indicate full marks.	
Q.1	A)	Mult	iple choice questions.	10
	·	1)	For analysis of spherulitest a) TGA b) c) DSC d)	echnique is used. POM All of the above
		2)	Thermal stability of polymer is estimal XRD b) c) TGA d)	
		3)	In Raman spectroscopy the line with original frequency is called asa) Stokeb) c) Antistoked)	_ line.
		4)	In SEM and TEM is used as a) light b) c) X-rays d)	
		5)	When a compound is placed in a mof the nuclei a) are unaffected b) reverses the direction c) rotate to 70° away from the ind d) align either parallel or anti-para	uced field
		6)	TMS is used in NMR analysis as a) solvent b) c) catalyst d)	 internal standard reactant
		7)	In TGA analysis nitrogen gas is use a) maintain inert atmosphere b) avoid reduction c) avoid oxidation d) Both a) & c)	ed to
		8)	In X-ray diffraction analysis Bragg's a) $n\lambda = 2d \sin\theta$ b) c) $nd = 2\lambda \sin\theta$ d)	
		9)	In FT-NMR the irradiation of the sa field while the radio frequency is va a) Field Sweep b)	

		10) By DEPT-45 ⁰ group can be identified. a) -CH b) -CH ₃	
	B)	c) -CH ₂ d) All of these Fill in the blanks.	06
	υ,	In UV-Visible spectroscopy the unsaturated compound containing heteroatom shows transition.	
		 Raman spectroscopy is carried out in the region ofA⁰. The ATR crystal must have refractive index than the sample 	
		under analysis. 4) is used to convert polychromatic light radiations into	
		monochromatic radiations.	
		5) The thermal analysis is the study of properties of material mainly with respect to .	
		6) The wavelength of X-ray isnm.	
Q.2	a)	wer the following Define Spherulite & explain in details about spherulites with diagram. Explain the study of kinetics of reaction and hydrogen bonding by IR-spectroscopic method.	16
		Define 2D NMR spectroscopy & explain COSY with suitable example. Write a short note on DEPT technique.	
Q.3	a)	wer the following. What is the Principle of Raman spectroscopy? Give any two applications of it for determination of polymer's characteristic. Write a note on FT-NMR spectroscopy & Give its advantages.	16
Q.4	a)	wer the following. Describe Laue's photographic method for X-ray diffraction. Define Pyrolysis & describe PGCMS technique.	16
Q.5	An: a)	wer the following. Give detail about any two applications of UV-Visible spectroscopy with suitable example.	16
	b)	Describe XPS technique with diagram.	
Q.6	Ans a) b)	wer the following. Describe briefly the working of TEM technique with schematic diagram. Give the principle of TGA. Explain the analysis of thermal stability & moisture content by TGA.	16
Q.7	An: a) b)	wer the following. Describe the method of production of X-rays with diagrammatic representation. Describe the principle of AFM technique with imaging modes.	16

Seat No.	Set	Р
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M.Sc. (Semester-III) (New) (CBCS) Examination: Oct/Nov-2022

				PHYSICAL (Solid State			
-			day, 17-02-2 To 02:00 P	2023		_	lax. Marks: 80
Insti	ructio	2) Attempt ar	io. 1 and 2 are com by three questions t ight indicate full ma	from Q.		
Q.1	A)	Mult 1)	Most Brava a) Primiti		b)	Body centered unit cell Face centered unit cell	10
		2)	•	nent reflects that ar opic		neir properties same in a us substances are isotropic both a and b	
		3)	a) Metal of		b)	Metal dioxides Metal fluorides	
		4)	A total num a) 7 c) 32	nber of space group	ps in cr b) d)	14	
		5)		lots can be used in llography nics		•	
		6)	a) Interstib) Vacanc) Pair of	efect in ceramic matial impurity cy- interstitial pair of nearby cation and tutional impurity	of cation	ns	
		7)	and Verner a) Gives	e advantage of usir uil method? small crystals growth rates	b) d)	hralski, Bridgman- Stock High tech apparatus Uses plasma torch	barger
		8)	a) thin qu	s used in XRD are l artz tube etal plates	made u b) d)	p of thin glass plates All of the above	
		9)	as a) decom	on between solid si position reaction e reaction	lver and b) d)	d molten sulphur is also k structure sensitive react tarnish reaction	

		10)			and one		solution	are u	sed a	s red	ucing	agent	in chem	nical	
			a)		azine hy	_		b) d)		razine ii carb	azene	:			
	B)			_	e blank	_									06
		1) 2)	Wł	hen the		deposit	surrour ion is do							;	
		3)		agg's e	equation	n =									
		4) 5)	bre	e crea	ting of r	nanosc he larg	s basic i ale mate er matei	erials	by ch	emica	ally or	physic	•		
		6)					ticles ar	e		dimen	sional	nano	materia	ls.	
Q.2	An	swer tl	ne f	ollowi	ng										16
	a)	Explai	in K	irkenda	all effec		obniguo	for or	mno	oito m	otorio	oveth	ooio		
	•	Illustra	ate z	zone re	efining t	echnol	chnique ogy of p tal syste	urifica	ation	of ma	terials			s.	
Q.3	An	swer tl	ne f	ollowi	ng.										16
	a)			the sin	² θ met	hod for	the cry	stal st	ructu	re de	ermin	ation o	of cubic	;	
	b)		the				of Czoch er the ot		meth	nod to	grow	single	crystal	s	
Q.4	_	swer tl			_									_	16
	a)			ne tarn xample		ctions \	with refe	erence	to its	s mec	hanısr	n by c	onsider	ring	
	b)	What	are	nanon	naterials		ition the nesis of		_		xplain	the			
Q.5	An	swer tl	ne f	ollowi	ng.										16
	a)	Mention method		lifferen	t metho	ods for	single c	rystal	grow	th. Illu	ıstrate	veme	euil		
	b)	Lists o	diffe in a	ny one			tools us oscopic								
Q.6	An	swer tl	ne f	ollowi	ng.										16
	a) b)		is h	omoge			cture faction? Ho						single		
Q.7	An	swer tl	ne f	ollowi	ng.										16
	a)	Mention reaction	on d	differen with re	it types eference	e to is r	d state r	ism by	/ takii	ng sui	table (examp	le.	n	
	b)	DISCU:	ss th	ne opti	cai and	eiectri	cal prop	erties	от т	etai n	ano pa	articles	S.		

Set No. Set	P
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M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 ANALYTICAL CHEMISTRY Analytical Spectroscopy

				Analytical Spec				
•			•	17-02-2023 02:00 PM			Max. Marks: 8	30
Instr	uctio	2) Atte	Nos. 1 and. 2 are compulsory empt any three questions from ure to right indicate full marks	n Q. No	. 3 to Q. No. 7		
Q.1	A)	Cho (1)		between electronic levels	ational			10
		2)	All e a) c)	•	tron spo b) d)	ectra except helium both a and b	_•	
		3)	The a) b) c) d)	.		•	e	
		4)	The a) b) c) d)	spin quantum number must	oility be gre ons	ater than zero		
		5)	In N a) c)	IQR, η is a measure of symmetry of EFG Spins	 b) d)	non symmetry of couplings	f EFG	
		6)	Unit a) c)	for magnetic field strength is Tesla Debye	b) d)	Calories Unitless		
		7)		ure rotational spectrum, transtional levels Involving ΔJ =0 ΔJ = ± 1	sitions a b) d)	are only observed $\Delta J = \pm 2$ $\Delta J = 0$, or ± 2	between	
		8)	Pho a) c)	toacoustic spectroscopy is co Mossbauer IR	ompara b) d)	ble to Fluorescence NMR		
		9)	Whi a) c)	ch of the following will NOT s Paramagnetic materials Transition metals	how ele b) d)	ectron spin resona Free radicals Diamagnetic ma	, ,	

		 10) The inelastic scattering of a photon is called? a) atmospheric scattering b) Rayleigh scattering c) Conserved scattering d) Raman scattering 	
	B)	 Fill in the blanks OR Write true / false. 1) In Raman spectroscopy, antistokes lines are appeared at higher energy side. (True or False) 	06
		 For an unbound electron, value of Lande' factor (g-factor) will be equal to Photogoguetic phonomena were first discovered by (Name of the control of the	
		 Photoacoustic phenomena were first discovered by. (Name of th If a non bonding electron is removed, there is virtually no change bond length or bond strength. (True or False) Homonuclear diatomic molecules show Raman spectra. (True or 	e in
		False) The fundamental energy equation used in spectroscopy is	
Q.2	Ans	ver the following.	16
	a)	What do you mean by hyperfine structure? How do they arise in ESR spectra?	
	b) c)	Write a note on PAS gases and condensed system. Predict the ESR spectrum of the following radicals :(a) ${}^{*}CF_{2}H$ (b) ${}^{*13}CF_{2}$	ьН
	d)	What do you mean by the term electric field gradient (EFG)? Explain the term.	iis
Q.3	Ans a)	ver the following. Discuss applications of electron spin resonance spectroscopy in quant analysis.	16 itative
	b)	Explain how NQR spectroscopy is used in molecular structure determination.	
Q.4	Ans a) b)	ver the following. Discuss chemical and surface applications of photoacoustic spectrosco What is Scanning Tunnelling Microscopy? Discuss basic principles of it	
Q.5	Ans a) b)	ver the following. Write on ESCA instrumentation. Discuss pure rotational Raman spectrum.	16
Q.6	Ans a)	ver the following. Discuss scanning electron microscope (SEM) with reference to its prince and working.	16 ciple
	b)	Write on applications of atomic force microscopy in various fields of stu	ıdy.
Q.7	Ans a) b)	ver the following. With the help of block diagram, explain ESR spectrometer. Explain the quadrupole splitting and hyperfine interaction in Mössbaue spectroscopy with suitable example	16

Seat	0.4	
No.	Set	Р

M.Sc. (Semester-III) (New) (CBCS) Examination: Oct/Nov-2022

				INORGANIC C Environmenta		_	
-			-	17-02-2023 02:00 PM		Max. Marks	: 80
Instr	uctic	2	2) Atte	estion no. 1 and 2 are comp empt any three questions fro ure to right indicate full mark	m Q.		
Q.1	Q.1 A)	Cho 1)	Wh a)	the correct alternative. ich of the following is called PANs Carbon monoxide	the s b) d)	econdary air pollutant? Ozone Nitrogen Dioxide	10
		2)	radi a)	e gaseous layer which protectiation Argon Ozone	cts ea b) d)	arth from harmful ultraviolet Nitrogen Carbon dioxide	
		3)	SM a) b) c)	ich of the following pollutant OG? From incinerators Emissions from vehicles Both incinerators and emissione of the above		responsible for the cause of from vehicles	
		4)	a)	e first laboratory produced ra ³⁰ P ¹⁴ C	ndio n b) d)	ucleus is ³ H ²³² Th	
		5)	a)	ustrial activities discharge m Air Soil	any d b) d)	of the toxic metals in Water All of these	
		6)	a) c)	Dialysis Autoradiography	b) d)	es solution can be investigated by Electrophes All of these	
		7)	<u>a)</u>	orofluorocarbon are nonflan Perfumes Air conditioners	nmab b) d)	le chemicals mainly used in Refrigerators All of the above	
		8)	Wh a) c)	ich of the following diseases headache Breathing Problems	are (b) d)	caused by smog? anxiety none of the above	
		9)		ich of the following agents is utants? Smog and Ozone Nitrogen dioxide	b) d)	nly responsible for the secondary Sulphur trioxide All of the above	

		10)	sol	topes of bismuth and leution in Water	ead have b b)	een found to form colloidal H ₂ S		
			,	Acetone	ď)	Dioxane		
	B)	Fill in 1) 2) 3) 4) 5)	The	water. metal is associated of the following is t	enic in wate ed for redu d with hate the product	cing the total dissolved solids in	06	
		6)	Ele	ctrostatic Precipitators	are used t	o control		
Q.2	a) b) c)	Bhopa Disinfo Acid ra	al ga ectic ain	ollowing is tragedy on of water in and condensation of	gaseous e	ffluent	16	
Q.3	a)	swer the following. Describe Sources and sinks of gaseous pollutants. Explain effects of water pollutants on life and environment.						
Q.4	a)	Explai	n cc	ollowing. onstruction and working about ozone depletion	•	d dry scrubbers. onsequences on Environment.	16	
Q.5	a)	Explai	n ab			aste water treatment. iple of bag filters, cyclone	16	
Q.6	An: a) b)	Descr What	ibe t are			vy metals like Cd and Pb. in the Environment? How can	16	
Q.7	a)	Discus biodes	ss a grad	bllowing. bout Chemical solution ability.		·	16	
	b)	DISCUS	ss a	bout the ionizing and n	ion-ionizin(g radiations on living things.		

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M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov -2022

			PHARMACEUTICA Medicinal Cl			_
-			day, 17-02-2023 I To 02:00 PM		Max. Ma	arks: 80
insti	ructio	2) Q. No. 1 and. 2 are compulsory) Attempt any three questions fro) Figure to right indicate full mark	m Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i 1)	n the blanks by choosing correction. The P. Ovale parasite uses the a) Heam c) Amino acids			
		2)	a) Gamma aminobutyric acid c) K ⁺ channels	b)		
		3)	Tetracycline inhibits protein synta) 30s ribosomal submit c) Topoisomerase III		60s ribosomal submit	
		4)	The aminoglycoside antibiotics of linked to aminocytitol ring by a) Ionic bonding c) Covalent bond		one or more amino sugars Glycosidic bond Deoxyglycosidic bond	
		5)	Sulphonamides are bacteriostat product of a) Protonsil c) Sulphanilamide	ic antibio b) d)	PABA Both a & b	
		6)	What are the pharmacological a a) Prevent blood clots b) Reduce pain c) Decrease fever and inflam d) All of the above		NSAID?	
		7)	A compound among the following histamine is a) Diphenylhydramine c) Omeprazole	ng that ca b) d)	an be used as an anti- Norethindrone Chloramphenicol	
		8)	The most serious adverse effects a) Hypoglycemia c) Fever	t of insul b) d)	in is Nephrotoxicity Sweating	
		9)	Which of the following is beta bl a) Sodium nitroprusside c) Propranolol	ocker? b) d)	Dillrazem Digitals	

		10)	Ama) c)	ong the following Captopril Valsartan		xam _l b) d)	ole of ACE inhibitor. Carvedilol All of the above	
	B)	Write		ue or False.	s the availa	abilit	y of catecholamines at the	06
		2)	арр	ropriate receptor site	of the brain	۱.	o o-position increases the	
		3)	anti	bacterial activity.		·	es depends upon direct	
		4)		age of Sulphur from su chemical name of a F	•		ith benzene ring. 2-Acetoxybenzoic acid.	
		5) 6)		oconazole is available apamil is a more pote			shampoo and a cream. nan Nifedipine.	
Q.2				llowing.				16
	a) b)			ntibiotic? Give the MO e SAR of Diazepam.	A of Ampio	illin.		
	c) d)			sification and uses of a ne SAR of Anti-hyperte			S.	
Q.3	Ans a)			llowing. in detail mode of actio	n and struc	cture	activity relationship of	08
	b)	Tetra	cycli					08
	IJ)			y? Write the SAR of C			icis irom perioninis	00
Q.4	Ans a)			llowing. MOA and metabolism	of lidocaine	2		08
	b)		is ne	eoplasm? Describe or			om alkylating agents and	08
Q.5	Ans a)			llowing. detail the pharmacolo	oay of Metf	ormi	n	08
	b)	•		detail the pharmacolo	•			08
Q.6	Ans a)			llowing. etail note on synthesis	and SAR	of Pa	aracetamol	08
	b)			detail the pharmacolo				80
Q.7	Ans a)			llowing. e following.				08
	,	1) N	Mode	e of action and metaboribe the synthesis of c			rates	
	h)	,		the MOA and SAR of	•		nine	08

No.

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		`		MÈDICÍNAL Bioche	CHÉMIST emistry	RY		
				7-02-2023 2:00 PM			Max. Marks: 8	30
nsti	ructio	2) Atter	o. 1 and. 2 are compulsompt any three questions re to right indicate full ma	from Q. No.	3 to Q. No. 7		
Q.1	A)	Fill i 1)	Ribo	blanks by choosing co se and deoxyribose diffe ely C ₂		•		10
			c)		d)	C ₄		
		2)	char	early defined nucleus and acteristics of			s the	
				Eucaryotic cells Protist cells	b) d)	Procaryotic cells None of the above	:	
		3)	char	tion exchange chromatoge move faster and elute	earlier.		net	
			a) c)	+ Ve - Ve		Neutral + Ve & - Ve		
		4)	a)	two polypeptide chains o Calmodulin Immunoglobulin G	f are b) d)		bonds.	
		5)	a)	cific colour reaction for sp Biuret reaction Xanthoproteic reaction	b)	Sakaguchi reaction	n	
		6)	spec	er the Watson-Crick mod ific base equivalences.			is the	
			a) c)	A = G & T = C A = T & G = C	b) d)	A = C & T = G None of the above	!	
		7)		base occurs in three lactim.			ctim and	
			a) c)	Thyamine Guanine	b) d)	Cytosine Uracil		
		8)	Nitro a) c)	gen mustard is t Oxidative UV radiation	ype of muta b) d)	igenic alterations in Alkylating Ionizing radiation	DNA.	
		9)	a) c)	is water soluble vitam Vitamin D Vitamin A	nin. b) d)	Vitamin K Vitamin C		

		10)	Lipid	s are a _	grou	p of compo	ounds	3.		
			a)	Mixed			b)	Homogenous		
			c)	Heterog	genous		d)	None of these		
	B)	Fill i	n the	blanks.					06	
		1)		is the common pyrimidine base present in both DNA & RNA.						
		2)			icid found ii					
		3)		iucose u	ndergo red	uction in pi	resen	ce of sodium amalgam to		
		4)	101111		on-reducin	ng disaccharide.				
		5)	The			-		li to produce glycerol and		
		- /			n as	•		3 ,		
		6)		vesicle co ation.	oat is a prot	ein called		_ which facilitates vesicle		
Q.2	Ans	wer th	ne fol	lowing.					16	
	a)			_	ference bet	tween prok	aryot	es and eukaryotes.		
	b)							l what is PI?		
	c)							nding pattern in base pair of		
		nucle			ospnodieste	er bona iink	(In si	uccessive nucleotide in		
	d)				Naturally O	ccurrina Ai	mino	Acids and enlist any four		
	,				ture. Descr	-				
Q.3	Ans	wer th	ne fol	lowing.						
	a)	•		details the	e structural	hierarchy i	in the	molecular organization of	80	
	L	cells.				ماد ماداد		ha in briaf the and rains and	00	
	b)			ng disacc		rides and c	iescri	be in brief the reducing and	80	
0.4	Δns	wer th	ne fol	lowing.						
ΦΤ	a)			_	two metho	ds of purifi	catio	n of protein.	08	
	b)	Explain in detail the secondary structure of protein with α -helix and							80	
		pleate	ed sh	eet structi	ure.					
Q.5	Ans	wer th	ne fol	lowing.						
	a)			_	'A' form, 'B'	form and	ʻz' for	m of DNA.	08	
	b)	•					-	light and discuss the	80	
		chem	iical a	gent that	cause DNA	A damage?	•			
Q.6	Answer the following.									
	a)	•		ınipulatioı	n of protein	s by Gene	Clon	ing and Expression with	80	
	L	diagr		d a 4 a 11 l u a u		.4			00	
	b)	Expla	ain in (detail Iron	n-sulfur clus	sters.			80	
Q.7	Answer the following.									
	a)					_	_	series? Write the conversion	80	
	h۱		•		,	•		se and D-Mannose).	Δο	
	b)			•	ount on vit		SUIUL	ble and water soluble vitamins	80	

110.	Seat No.	Set	Р
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	M.	Sc. (Semes		') (CBCS) E Puter Sci		nination: Oct/Nov-2022 CE	
				Fundamen	ital of Web	Des	signing	
-			day, 17 1 To 02:	-02-2023 00 PM			Max. Marks	s: 80
Instı	uctio	2	.) Attem	s. 1 and. 2 are copt any three que to right indicate	stions from G). No.	3 to Q. No. 7	
Q.1	A)	Fill 1)	The docum a)	_	termines wha	at the ser's t b)	hatives given below. browser displays as that the itle bar. <head title=""> <page th="" title?<=""><th>10</th></page></head>	10
		2)	extens a)	•	. file you sho	uld b) d)	give it a .html or .htm Always Not at all	
		3)	Langu preser a)		international ety of physica e	stand	Miche Berners-Lee	
		4)	<u>a)</u>	aragraph tag (<p text program</p 	>) is used to	delim b) d)	nit entire paragraphs of code source code	
		5)	The he the lov			,	highest, most important, and Seven Five	
		6)	space a)	eformatted tag (literally and not HTML SGML			e client to treat white it usually would. HTPP FTP	
		7)	in you a)	element ho r browser. <heading> <body></body></heading>	lds the actua	l cont b) d)	<pre>tent of the page that is viewed <head> <background></background></head></pre>	
		8)	a)	= "http://ww href Linkto	w.Google.coı	m" > b)	arefer Linkref	

		9)	The _ a) c)	Brc Arc	attribute t	ells the bi)	ere to find the image. Src Irc	
		10)	Which a) c)	Goog	gle app al le docum le slides		to creat b d)	quiz, poll, or survey? Google forms Google drive	
	B)	Write 1) 2) 3) 4) 5)	On Go with m Each what t Googl Word. There and cl	gcolor oogle I ne" for table s the tab le Slide are lo losing	attribute Drive, file files with should ha ble is for. e is Goog ts of tags tags.	s are arra collabora ve a capt lle's word	anged ir ators. ion so t proces are all	n fo that ssor	d color for the table. Iders and show files "shared t visitors to your site know r and is similar to Microsoft pairs; there are opening tags	06
Q.2	Ans a) b) c) d)	What State What	the mo	u mear eaning ogle ap	n by Web of HTML	Page an s for Educ			e?	16
Q.3	Ans a) b)	What	and e	e Gold	den rules				signing and Development? I its control with suitable	08 08
Q.4	a)	What		et mea	ans? Stat	-			us application of Internet. with suitable example.	08 08
Q.5	Ans a) b)	What		ogle Di	rive? Stat		•		arious applications. vith suitable example.	08 08
Q.6	Ans a) b)	Expla		ML Ima	age tab ai				suitable example. L Font tag and its attribute.	08 08
Q.7	Ans a) b)	What exam	ple. HTML	ogle Ši	te? Expla	•			Google Site with suitable e of HTML with suitable	08 08

No.

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 PHYSICS (CONDENSED MATTER PHYSICS) Energy Harvesting Devices

			P	היא היא היא היא האולה היא היא האולה היא היא היא היא היא היא היא היא היא הי		_	
•			.	7-02-2023 2:00 PM		Max. Ma	rks: 80
Instr	uctio	2	.) Atte	os. 1 and. 2 are compulsory mpt any three questions from re to right indicate full marks	n Q. No	. 3 to Q. No. 7	
Q.1	Q.1 A)	Fill i	Polyi rang	blanks by choosing correct mer electrolyte membrane fu e°C.	iel cell d	operate in the temperature	10
			a) c)	10-30 120-150	b) d)	60-80 Above 1000	
		2)	Piezo a) c)	oelectric crystals produce No voltage High voltage	b)	Low voltage Very high voltage	
		3)		id capacitor electrodes conta erials. Metal oxide Combination of a) and b)	b)	Carbon	
		4)	The a)	standard emf of the hydroge 1.23 V 3.96 V	n-oxyge b) d)		
		5)	Whic a) c)	ch of the following highest po Capacitor Supercapacitor	wer de b) d)		
		6)		Fill Factor of the solar cell is Vmlm.Voclsc VmVoc/ Im Isc	b)	Vmlm /Voclsc Voc Isc/Vmlm	
		7)	a) c)	material is used as windo CdSe ZnO	ow laye b) d)	r in the solar cell. CdTe CuInSe ₂	
		8)	Solid °C. a) c)	l oxide fuel cells operate at h 250 1000	igh tem b) d)	nperature as high as 500 2000	
		9)	•	idocapacitors store the charge Faradaic Electrostatically	ges thro		

		10)		cn of these gases cells?	or liquids are	not u	sed as source of hydrogen i	n
			a) c)	C ₂ H ₆ C ₆ H ₆		b) d)	C ₂ H ₂ C ₂ H ₅ OH	
	B)	Fill i	,	blanks / Write T	rue or False.	u,	02110011	06
	-,	1) 2)	The	is most prefe piezoelectric mat	rable metal oxi erials used for	conv	Dye Sensitized Solar Cell. verting energy are called	
		3) 4)	CdS	is one of the	most preferable ar cells are a fo	e elec urth-	ctrolytes for liquid solar cell. generation solar cell.	
		5)	Sho	ckley queasier lin e <i>I</i> False)	nit is defined fo	r Qua	antum Efficiency.	
		6)	The	,	SSC is lower th	an D	SSC because Multiple exitor	٦.
Q.2	a) b)	Hybri p-n ju Piezo	d sup inctio elect	llowing. percapacitors on solar cell tric materials cell (SOFC)				16
Q.3	a)	Give	an ac	llowing.	•	_	c solar cells.	10
	b)	Write	a no	te on photoelectr	ochemical cen.			06
Q.4	,	wer th	ne fol ribe p	llowing. brinciple, working CdS / Cu ₂ S solar	and materials		SSC solar cells.	06 10 06
Q.4 Q.5	Ans a) b) Ans a)	wer the Description Descriptio	ne fol ribe p date (ne fol ribe co	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor.	and materials cells.	for D	n the electrical double layer	10 06
	Ans a) b)	wer the Description Descriptio	ne fol ribe p date (ne fol ribe co	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor.	and materials cells.	for D		10 06
	Ans a) b) Ans a) b)	wer the Description of the Description of the Elucidose Control of the	ne fol ribe p date (ne fol ribe co seud date s ne fol an ac	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor. symmetric and as	and materials cells. echanism invol	ved i	n the electrical double layer acitor configurations.	10 06

No.

		. (C		ELECTRONIC		mation. Godin	3
				Medical Instrume		on	
-			lay, 17-02- To 02:00 F				Max. Marks: 80
Instr	uctio	2)	Attempt a	and. 2 are compulsory. ny three questions from C right indicate full marks.). No.	3 to Q. No. 7	
Q.1	A)	Choo 1)		bioelectric potential is ctronic	b) d)		10
		2)	a) Lim	type of electrode is use lb face	b)	EMG measuremer Needle Floating	nt.
		3)	a) Sou b) Arte c) Hea	systole and diastole refer und from the heart ery and vein from to the he art contraction and relaxat es of heart pulse	eart	·	
		4)			b)	mentation should r $20~\mu$ A $50~\mu$ A	not be
		5)	The restin a) +20 c) +90		b) d)	mV. -90 -20	
		6)	The cell m a) Na- c) K+	nembrane in excited state +	imped b) d)	des the entry of CI+ P+	ions.
		7)	a) Rad	picture in biomedical is ca diology nography	alled a b) d)	as Tomography Angiography	
		8)	a) 50-	EG frequency range is 500 Hz 5-5 Hz	b) d)	0.5-50 Hz 1-200 Hz	
		9)	a) Will	rdiography was invented b lem Einthoven rner Forssmann	b) d)	Robert Koch Gertrude B.Elion	
		10)	a) Pre	ide patient monitoring system amplifier section play part	tem b b) d)	asically consists of Logic boards All of these	·

	B)	Write True or False.	06
		1) In arteries blood flow is linear.	
		2) The capillaries are the smallest and last level of blood vessels.	
		 Differential amplifier always provides the protection against leakage currents. 	
		 The isolation amplifier always provides the protection against leakage currents. 	
		5) The body fluid is slightly acidic.6) Limb electrodes are generally made up of steel-silver	
Q.2		wer the following.	16
	a)	Explain the SA and AV node in detail.	
	b) c) d)	Explain the skin contact impedance. Describe the electromyography with principle of operation. Explain the EMG electrode.	
Q.3	Ans	wer the following.	
	a)	Explain in detail the central monitoring system.	10
	b)	Explain the ECG electrode.	06
Q.4	Ans	wer the following.	
	a)	Explain in detail cardiovascular system with engineering diagram.	10
	b)	Explain the electrode-tissue interface.	06
Q.5	Ans	wer the following.	
	a)	Explain the measurement of the pulse rate and heart rate.	10
	b)	Explain the basis of diagnostics radiology.	06
Q.6	Ans	wer the following.	
	a)	Explain in detail the EEG system in detail.	10
	b)	What is the general architecture of the X-ray machine?	06
Q.7	Ans	wer the following.	
	a)	With suitable diagram, describe in details the MRI method.	10
	b)	Explain the ultrasonic measurements and diagnosis.	06

Seat No.	Set P
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		Electronic Science								
		Digital Electronics and Co								
•		e: Friday, 17-02-2023 0 AM To 02:00 PM		Max. Marks: 80						
Instr	uctio	ns: 1) Q. No 1 and 2 are compulsory. 2) Attempt any three questions fro 3) Figures to the right indicate full								
Q.1	A) 1)	Multiple Choice Questions Which type of antenna is used for ed a) Omni-directional antenna c) Sectored directional antenna	b)	Grid antenna						
	2)	is the process of using the sattransmitter sites within a geographic a) Frequency reuse c) Cell cluster	area	i. Hand-off						
	3)	AND, OR & NOT gates a) Basic gate c) Special gate	b) d)	•						
	4)	requires guard bands for chara) FDM c) WDM	nnel : b) d)	separation to avoid interference. TDM TDMA						
	5)	For a perfect modulation, the value of means the modulation depth should a) 100% c) 0%	be _ b)							
	6)	The expression Y= (A+B)(B+C)(C+A a) AND c) Sum of product	b)	ows the operation. Product of sum NAND						
	7)	What is the full form of CDMA? a) Code division multiple access c) Check diode multiple access		Code Dividend much access None of these						
	8)	In satellite communication, the frequency is called frequency. a) Downlink c) closed	-	which is sent by the transponder Uplink All of these						
	9)	GPRS and EDGE are the standards a) 2.5G c) 3G	of b) d)	communication system. 2G 4G						
	10)	1's complement of 1011001 is a) 0100111 c) 0100110	b) d)	0101100 0110110						

	B)	Write true/false.	06
		Frequency modulation is analog type of modulation.	
		2) 2G technology started in the early 1990s.	
		3) The base or radix of octal number system is 8.	
		4) Wi-Fi is best example of femto cells.	
		5) Commutative law obeys for logical OR & logical AND operations.	
		Aliasing effect can be reduced by using anti-aliasing filter.	
Q.2	Ans	wer the following.	16
		1) Explain PAM.	
		2) What is Bluetooth?	
		3) Compare: TDM and FDM	
		4) Explain NAND gate with its truth table.	
Q.3	Ans	wer the following.	
		A) With a neat block diagram, explain the following analog modulation	10
		techniques. i) AM ii) FM	
		B) Explain FDMA with its advantages and disadvantages.	06
Q.4	Ans	wer the following.	
		A) Explain different generations of communication system with its merits	10
		and demerits.	
		B) Explain in detail GSM architecture.	06
Q.5	Ans	wer the following.	
	A)	What is satellite communication? With a neat block diagram, explain	10
		satellite transponder.	
	B)	Explain modulation index with its different cases:	06
		i) Under modulation ii) over modulation iii) perfect modulation	
Q.6	Ans	wer the following.	
	A)	Explain the following number system with a suitable example.	10
	-	i) Binary number system ii) Decimal number system	
	B)	Explain Boolean operators.	06
Q.7	Ans	wer the following.	
	A)	Explain the following gates with its gate representation and truth table:	10
	,	i) Basic gate ii) Universal gate	
	B)	State and Explain Demorgan's theorem.	06
	-	-	

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Seat	Cat	D
No.	Set	F

MA/M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 GEOGRAPHY Cultural Geography

	Cultural Geography							
•			•	7-02-2023 :00 PM			Max. Marks: 80	
	Π: 1)	सर्व प्र	प्रश्न अ	 निवार्य आहेत. । अंक पुर्ण गुण दर्शवितात.				
प्र.1	अ)	खाली 1)	 अ)		,	नागा भरा. जारवा	10	
		2)	 अ)	एस्कीमो हा बौध्द धर्माचा पवित्र ग्रंथ आहे त्रीपिटक	ब)	कुराण		
		3)	युरोपि अ)	बायबल यन लोक —— या वंश गटाचे मंगोलॉईड नीग्रोईड	ब)	रामायण कॉकेसाईड ऑस्ट्रेलाईड		
		4)		याने सामाजिक कल्याणाची संव डेव्हिड स्मिथ	ल्पना	दिली आहे. रॅटझेल		
		5)	अ)	ही मानवी भूगोलाची आधुनिक उ आर्थिक भूगोल औद्योगिक भूगोल	ब)	सागरशास्त्र		
		6)	अ)	यांना सांस्कृतिक भूगोलाचे जनव कार्ल ओ. साऊर ब्लाश	ब)	गतात. रॅटझेल डेविस		
		7)		ध्ये सर्वात जास्त लोकांकडून बो इराणी फ्रेंच	ब)	जाणारी भाषा ही — मंडारीन हिन्दी	आहे.	
		8)	अ)	आर्थिक क्रिया बौध्दिक आणि वै प्राथमिक तृतीयक	ब)	सेवा प्रदान करतात द्वितियक चतुर्थक	Г.	
		9)	आवड अ)	या भटक्या जमातीच्या लोकांच्य ते आहे. एस्कीमो बुशमेन		ारात बैलाचे रक्त हा मसाई तोडा	ा महत्वाचे	

		,	नामाजिक–सांस्कृतिक प्रा	क्रेयेचे लोक	न्संख्याशास्त्र <u>ी</u> य	निर्देशाक	
		आहे. अ) जन	नश्मता	ৰ) ব	ന്ദ്രദരം		
		क) औद			गररायः गागरीकरण		
	ৰ)	रिकाम्या जागा भ		,			06
	٦)		ा. गावरणातील मानवी क्रियां	वा अभ्यास	भगोल	म्हण्न	00
		' ओळखला			0	- 6	
			ग जिथे संस्कृतीची उत्पर्त	ो होते त्या	ला म्हणू	न ओळखले	
		जाते. a) तंत्र टी	गंकनाचा गारे				
		,	— संकल्पना आहे. ाहतीतील लोक प्रामुख्याने	। हा	विसासात गंतले	ले असतात	
		•	ची देणगी आहे.	33	ia (iiaiti gitei	er ordini.	
		•	pलाहरी वाळवंटातील आ	देम जमात	आहे.		
प्र.2	खाव	ोल प्रश्नांची उत्तरे	लिहा.				16
	अ)	सांस्कृतिक भूगोल	ाचे घटक सांगा.				
	-	संस्कृती प्रसाराचे					
		_	ालतेची संकल्पना सांगा.				
	ভ)	ग्रामीण समुदायार्च	विशिष्टयं सागा.				
प्र.3	खाल	ोल प्रश्नांची उत्तरे	लिहा.				
	अ)		ाचा अर्थ सांगा आणि त्य		व व्याप्ती स्पष्ट	करा.	08
	ब)	शेतीतील तांत्रिक	बदलाची माहिती स्पष्ट व	न्स.			80
Я.4	खाव	ोल प्रश्नांची उत्तरे	लिहा.				
	अ)	जगातील भटक्या	जमातीचे थोडक्यात वर्ण	न करा.			80
	ब)	ग्रामीण व शहरी	समाजाचा सांस्कृतीक प्रार	ज्पाची चर्चा	करा.		80
प्र.5	खाल	ोल प्रश्नांची उत्तरे	लिहा.				
	अ)	_	क परिमंडळ स्पष्ट करा.				80
	ৰ)	सामाजिक क्षेमकुश	ालतेचे निर्देशक थोडक्या	त स्पष्ट क	रा.		80
प्र.6		ोल प्रश्नांची उत्तरे					
		जगातील प्रमुख ध					80
	ৰ)	सास्कृतिक भूगोल	ाचे महत्व स्पष्ट करा.				80
प्र.7	खाव	ोल प्रश्नांची उत्तरे					
	अ)	_	क उगमस्थानाचे वर्णन व		_	. \	80
	ৰ)		तील सामाजिक व सांस्कृ	निक प्रक्रि	या भारताचा सं	दभं देऊन	08
		स्पष्ट करा.					

Seat No.	Set	P
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				GEOGF Cultural G		V	
•				7-02-2023 2:00 PM			Max. Marks: 80
Instr	uctio	2) Atter	os. 1 and. 2 are compuls npt any three questions f re to right indicate full ma	rom Q. No.	3 to Q. No. 7	
Q.1	A)	Fill i 1)	n the	blanks by choosing co		natives given below	v. 10
		ŕ	a) c)	Bora Eskimo	b) d)	Jarwa Semang	
		2)	a) c)	is holly book of Buddh Tripitaka Bible	nism. b) d)	Kuran Ramayana	
		3)	The label a)	Europeans belong to the Mangoloid Negroid	rad b) d)	cial group. Cacuasoid Austroloid	
		4)	The ca)	concept of social well-bei David Smith Blash	ng is given b) d)	by Ratzel Devis	
		5)	a) c)	is a modern branch of Economic Geography Industrial Geography	f Human G b) d)	eography. Oceanography Cultural Geography	y
		6)	a) c)	is called the father of Carl O. Source Blash	cultural ged b) d)	ography. Ratzel Devis	
		7)	a) c)	is the most widely spo Irani French	oken langua b) d)	age in the world. Mandarin Hindi	
		8)	service a) c)	economic activities pr ces. Primary Tertiary	ovides inte b) d)	llectual and persona Secondary Quaternary	ıl
		9)	"Ox b a) c)	olood" is favourite and im Eskimo Bushmen	portant in tl b) d)	he diet of tril Masai Toda	bal group.
		10)	a) c)	is a demographic indi Fertility Industrialization	cators of so b) d)	ocio-cultural process Transportation Urbanization	5.

	B)	Fill in the blanks.	06
		The study of human activity in physical environment known as	
		geography.	
		2) The place where cultural originates is known as	
		3) Race is a concept.	
		4) People in rural settlement are mainly engaged in occupations.	
		5) Egypt is a gift of	
		6) are a primitive tribe of the Kalahari desert.	
Q.2	Ans	wer the following.	16
	a)	State the components of cultural geography.	
	b)	State the type of cultural diffusion.	
		Give the concept of social well being.	
	•	State the characteristics of rural community.	
	u,	State the characteristics of fural community.	
Q.3	Ans	wer the following.	
	a)	Define cultural geography and explain its nature and scope.	08
	b)	Explain the technological changes in agriculture.	80
Q.4	Ans	wer the following.	
	a)	Describe the brief various tribes of the world.	08
	b)	Discuss the cultural pattern of rural and urban society.	80
Q.5	Ans	wer the following.	
		Explain the world cultural realms.	08
	,	Explain in brief social well-being indicators.	80
Q.6	Ans	wer the following.	
	a)	Explain major religious of the world.	08
	b)	Explain significance of cultural geography.	80
Q.7	Ans	wer the following.	
	a)	Describe the world cultural hearths.	08
	b)	Explain in brief social cultural processes in the developing countries with	08
	,	special reference to India.	

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Seat	Cat	D
No.	Set	F

M.A./M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 GEOGRAPHY Commercial Geography

				Commer	cial Geogra	aphy	
				7-02-2023 2:00 PM	_		Max. Marks: 80
सचन	Π: 1)	सर्व !	प्रश्न अ	ानिवार्य आहेत.			
.e	-			न अंक पुर्ण गुण दर्शवि	वेतात.		
प्र.1	अ)		_	लेले योग्य पर्याय निव	41		10
		1)		क भूगोलाची भृ	•	^	
			<u>~</u>)	सामाजिक	ब) - √	राजकीय	
		,	,	व्यापारी	,	ऐतिहासिक	
		2)		न भूगोल ही भू		^	
			,	नगरी	ब) =\	_	
		,	•	कृषी	,	व्यापारी	\
		3)		ायिक मासेमारी ही मा			ह.
			,	प्राथमिक तृतियक	,	द्वितियक चत्र्थक	
		.)	•	C	,	9	
		4)		हम' या भूगोल तंज्ञाल आर्थिक	• • • • • • • • • • • • • • • • • • • •	_	ld.
			,	वैद्याकीय	· .	प्राकृतिक वाहतुक	
		۲)	,				21112
		5)	प्राथा + अ)	ोक स्वरुपाच्या क्रियेम! जास्त	ध्य उत्पादित प ब)	स्तुचा १०मत — मध्यम	— असत.
			ज) क)	कमी	ਖ) ਫ)	_	
		6)	,	ही पुनरुउत्पादन कर	,		
		6)	अ)	हवा	रता न पुनारा र ब्र)	पाणी पाणी	
			,	जमीन	,	 वनस्पती	
		7)	,	चा उदयोग धंदयाच्य	•		नतम खर्च
		' /		ावर आधारित आहे.	11 (311) 14/14/(11-11 1 (1-4)(1 3	MT G-1
			अ)	अल्फ्रेड वेगनर	ब)	अल्फ्रेड वेबर	
			क)	अ. लॉस	ভ)	रिटर	
		8)	शेती	हा —— श्रेणीचा आर्	र्थेक व्यवसाय ३	आहे.	
		,		प्राथमिक		द्वितियक	
			क)	तृतियक	ਫ)	चतुर्थक	
		9)	जगात	ा सर्वात जास्त	जपानमध्ये आर	यात होतो.	
		-	,	कोळसा	ब)	पेट्रोलियम	
			क)	नैसर्गिक वायू	ਫ)	जलविदयुत	

		10)	'ओपेव	p' ची स्थापना -	—— मध्ये झार्ल	Ī.		
			अ)	1950		ब)	1955	
			क)	1960		ड)	1965	
	ৰ)	रिकाम्य	या ज	गा भरा.				06
	7				योग्य मोबदल्या	च्या ब	दल्यात देणे महणजे —— होय.	
		,					<u> </u>	
		•	_	ो —— होय.	α 3			
		3)	युरोपन	च्या आर्थिक सम	ाज संघटनेचे मुर	_{ध्यालय}	य —— देशात आहे.	
		,					ग दोन पद्धती आहे.	
					स्टर् म्हणून ओळ			
		6)	भारता	तील प्रमुख खन्	नेजतेल क्षेत्र	– नर्द	च्या खोऱ्यात आहेत.	
		<u> </u>	٠ .	<u> </u>				40
Я.2				उत्तरे लिहा. चाने गटन गांग	тт			16
	अ) ब)			लाचे महत्व सांग्र	॥ वरणाच्या व्याख्या	i	т	
		आर्थिक	या प चित्र	सारपृगराक पदा गसात शेतीचे मा	परणाच्या व्याख्या इत्य ग्रांगा	VIIVI	1.	
	_{৭/)} ভ)			गरात सताच गर ार्यटनाच्या समरू				
	٠,	11 ((11)			-11 (11 11.			
Я.3	खार्ल	गील प्रश्न	गांची :	उत्तरे लिहा.				
	अ)	व्यापारी	. भूग <u>ो</u>	लाच्या व्याख्या	सांगून, व्यापारी १	भूगोला	ाची स्वरुप व व्याप्ती लिहा.	80
	ब)	पर्यटन	विका	सावर परिणाम	करणाऱ्या प्राकृति	क घट	टकांचे वर्णन करा.	80
			. هـــــ					
Я.4				उत्तरे लिहा.			-	00
					सविस्तर माहिती			08 08
	۹ <i>)</i>	न्युगतम	।, पय	।प्त प आतारक्त	लोकसंख्येची स	।कल्प•	ना स्पष्ट करा.	00
प्र.5	खार्ल	रील प्रश्न	गांची '	उत्तरे लिहा.				
	अ)			_{एषी} पर्यटन केंद्र	ाचे वर्णन करा.			08
	ब)			•	पर्यावरणाच्या घट	.कांचे	वर्णन करा.	08
	,	C		C				
प्र.6				उत्तरे लिहा.				
							णाचा सिध्दांताचे वर्णन करा.	80
	ৰ)	व्यापारा	च्या वि	वेकासात असण	ाऱ्या वाहतुकीच्या	महत्व	वाचे वर्णन करा.	80
π -		n_						
Я.7				उत्तरे लिहा . पर्शिक कियांचे व	गर्गीकरण स्पष्ट व	ਮਹਾ		08
	अ <i>)</i> ब)				गाकरण स्पष्ट व या समस्या सांगा			08
	٩ <i>)</i>	אוואוור	IICI C	मिष्ठ उपयागीय	पा रागर्या रागा			90

Seat		
	Set	Р
No.		

			•	GEOGRAPH	ĺΥ		
			C	ommercial Geo	grap	ohy	
-			ay, 17-02-2023 To 02:00 PM				Max. Marks: 80
Insti	ructio	2	Attempt any thre	are compulsory. ee questions from C dicate full marks.). No.	3 to Q. No. 7	
Q.1	A)	Fill i 1)	_	choosing correct a hy is the branch of ial		_	ow. 10
		2)	Marketing geogra a) Urban c) Agricultura	aphy is the new bra al	nch (b) d)		hy.
		3)	Commercial fishi a) Primary c) Tertiary	ing is econd	b)	activity of man. Secondary Quaternary	
		4)	Chisholm geogra a) Economic c) Medical	apher has called as		er of geog Physical Transport	ıraphy.
		5)	Primary activities a) High c) Low	s produce v	b)	of goods. Medium Very high	
		6)	a) Air c) Soil	renewable resource		water Plant	
		7)	Industrial localiza a) Alfred We c) A. Losch	ation theory based o	on lea b) d)	ast cost is that prop Alfred Weber Ritter	oosed
		8)	Agriculture is a _ a) Primary c) Tertiary	type of ecor	nomic b) d)	activity. Secondary Quaternary	
		9)	Japan was the le a) Coal c) Natural ga	eading importer of _ as	b) d)	_ in world. Petroliam Hydel power	
		10)	'OPEC' was esta a) 1950 c) 1960	ablished in the year	b)	 1955 1965	

	B)	Fill in the blanks.	06
		1) means the exchange of goods, services and ideas.	
		2) refers to the movement of commodities and people from one	
		place to another place.	
		3) The headquarter of ECC trade organization is in	
		4) Retail and trade are the two methods of trade.	
		5) is known as Manchester of India.	
		6) Main natural oil field of India in river basin.	
Q.2	Ans	wer the following.	16
~·-	a)	Write importance of commercial geography.	. •
	b)	Define physical and cultural environment.	
	c)	Illustrate the significance of agriculture in economic development.	
	d)	State the problems of Tourism in India.	
Q.3	Ans	wer the following.	
	a)	Define Commercial Geography and explain its nature and scope.	08
	b)	Explain the physical factors affecting the tourism development.	08
Q.4	Ans	wer the following.	
	a)	Give an account of Rail transport in India.	08
	b)	Explain concept of under, optimum, and over population.	08
	,		
Q.5		wer the following.	
	a)	Describe agro-tourism centers in India.	08
	b)	Describe the elements of physical and cultural environment.	80
Q.6	Ans	wer the following.	
	a)	Describe Alfred Weber's theory of localization of Industry.	80
	b)	Describe the importance of transportation in commercial development.	80
Q.7	Ans	wer the following.	
	a)	Explain classification of economic activities of man.	80
	b)	State the problems of cotton textile industries in India.	08
	-		

Seat	Set	Р
No.		•

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 GENETICS

			Med		ENETICS	nanotechnology	
-			day, 1	17-02-2023 2:00 PM		Max. Marks	s: 80
Insti	ructio	2) Atte	los. 1 and. 2 are cor mpt any three quest ire to right indicate fi	ions from Q. N	o. 3 to Q. No. 7	
Q.1	A)	Mult 1)	a)	choice questions stages of HIV in 3	fection exist. b)	2	10
		2)	a) c)	1 dye used in fluor Crystal violet Acridine	d) rescent staining b) d)		
		3)	,		of the biosensole b)	or is determined by Physio-chemical membrane Biocatalytic membrane	
		4)		edical devices, the a lose of the input sign Low frequency res Average frequenc High frequency re Frequency respon	nal must have _ sponse y response sponse		
		5)		emical transduction This type of sensor Chemical sensor Photoelectric sens	is calledb)		
		6)	ELIS a) b) c) d)	SA is Using radiolabelle Usage of RBCs Using complemen Addition of substra	t-mediated cell	•	
		7)	Sol-(a) c)	gel method is Bottom up Top down	_ approach. b) d)	Up bottom Down top	
		8)	"The a) c)	ere is plenty of room Eric Drexler Harold Croto	at the bottom." b) d)	'This was stated by Richard Feynmann Richard Smalley	
		9)	Nana)	o wires are used in _ Transistors Capacitors	 b)	Resistors Transducers	

		10)	a) c)	Carbon vapour density Chemical vapour density	,	Chemical vapour deposition Carbon vapour deposition	
	B)	Fill ii 1) 2) 3) 4) 5) 6)	Tube Klebs Amod For n Multi	blanks OR Write True or Facture or Facture of infectulosis is chronic type of infection siella spp bacteria is a non-lacebiasis causes Dysentry. (Trunilling operations, kin walled CNT are condof nano particle is	ection. ctose t ue/Fals d of G	fermenter. (True/False) se) as is preferred.	06
Q.2	Ans a) b) c) d)	Give Write Write	types abou any f	owing. of Nanotube. t pathogenesis of HIV. our Industrial applications of the contractions of the contractions.	Bioser	nsor.	16
Q.3	Ans a) b)	Add a	a note	owing. on History of Nanotechnolog nolecular diagnosis of various	-	ses Nanotechnology.	08 08
Q.4	Ans a) b)	Desc	ribe th	owing. ne routes of Transmission of r themical Vapor Deposition an		rganisms in the animal body. ttering.	06 10
Q.5	Ans a) b)	Expla	ain app	owing. proach of Synthesis of Nanon diagnosis of Ameobiosis.	nateria	al	06 10
Q.6	Ans a) b)	Desc	ribe va	l owing. arious applications of Nanote oblems of Drug resistance an		0 ,	10 06
Q.7	a)	Discu cause	iss Ep ed by	l owing. bidemiology, description and μ <i>Vibrio cholera.</i> aracterization of nanoparticles			08
	b)	Explo	IIII CIIC	aracterization of hanoparticles	b by us	sing microscopic methods.	UO

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Seat	Sat	D
No.	Set	F

		`		´ `GEOÍNFORI	MATICS	3	
			F	undamentals of GIS A	nd Rem	note Sensing	
				17-02-2023 12:00 PM		Max. Mark	s: 80
Instı	ructio	2) Atte	Nos. 1 and. 2 are compulsory empt any three questions from ure to right indicate full mark	m Q. No	. 3 to Q. No. 7	
Q.1	A)	Cho 1)	The	the correct alternative. GPS is a satellite-based na placed into orbit by the 24 satellites 4 satellites	•	16 satellites	10
		2)	In R a) c)	emote Sensing, there are _ Two Four	b) d)	pes of resolution. One Five	
		3)		principles used in fance length, breadth and heigh Aerial imagery GPS			
		4)	Amo GIS a) c)	Hardware	not come b) d)	Software	
		5)	Elec a) c)	ctro-magnetic waves varies f Meters to nano-meters Nano to micro-meters	b)	Meters to micrometres	
		6)	Airc a) c)	rafts are commonly used as Satellites GPS	remote- b) d)	sensing for obtaining Total station Aerial Photographs	
		7)	The a) c)	point data feature can be us Location 3D area	sed to re b) d)	present Area Volume	
		8)	UTN a) b) c) d)	A stands for Universal traditional metho United transverse Mercato Universal Transverse Merc Universal Transverse	r		
		9)	Blue a) c)	e, green, and red are the Secondary frequent Secondary colours	of t b) d)	he visible spectrum. Primary frequent Primary colours	

		10)		ne camer High ob	a axis fro	m the ver otograph	tical axis b)	is referred Low obliq Deviates	to as the _ ue photogra	aph	
	B)	1) 2) 3) 4) 5)	The com sate retrice Platt (Tru Spa	munity. Indite image is a centre is a centre is a centre is a centre in the image is a centre is a cen	user segroses (8-bit) computer alysis, and satellites) not havir) having _ ized datal d display o are not af ng a speci	sists of the picture picture pase system of spatial fected by ficture picture	tem for cap	ture, storag s atmosphe alse)	ge, ere.	06
Q.2	Ans a) b) c) d)	Adva Write Remo	ellip ne fol ntage a sh ote se	soid into Ilowing. es of aeri ort note of ensing ar	locations ial photogon overla	on a plar graphy y analysis r mineral	ne. (True	/ False)	iales on an		16
Q.3	Ans a) b)	Expla	ain in		•	itforms an ation Mod		s in remote	sensing.		10 06
Q.4	Ans a) b)	Write	in br			s of image een vector	•	tation. ter models?	,		10 06
Q.5	a)	Defin	e aer	llowing. rial remot te on res		g and exp	lain deta	il its types.			10 06
Q.6	Ans a) b)	Expla	ain in			ns of GPS c parallax					10 06
Q.7	Ans a) b)	What sensi	is re		J	scuss the	-	nd develop diagram.	ment of rer	note	10 06

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Seat	Sat	D
No.	Set	F

	IVI.	3C. (Sem	GEOINFORI	MATICS	S	
-			-	Climatol 17-02-2023)2:00 PM	logy	Max. Mark	s: 80
Instr	ructio	2) Atte	No. 1 and. 2 are compulsory empt any three questions frou ure to right indicate full mark	m Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i		e blanks by choosing correct th atmosphere is divided into Three Five		natives given below. Two Four	10
		2)		ich one of the following regio tudes? Sub-tropical high pressure Equatorial low pressure be Polar high pressure belt Sub-polar low pressure be	belt elt	e surface of Earth has Horse	
		3)		ich one of the following diagr vind? Climogram Star diagram	rams sho b) d)	ows the direction and duration Cartogram Ergograph	
		4)	Wha a) c)	at is the most important elem Temperature Humidity	nent of cl b) d)	limate? Rainfall Pressure	
		5)	Air _I a) c)	oressure is lowest in Spring season Summer season	b) d)	Winter season Autumn season	
		6)	As r a) b) c) d)	in the southern hemisphere deflected eastward in the northern hemisphere deflected westward in the southern hemisphere deflected eastward in the northern hemisphere deflected eastward in the northern hemisphere deflected eastward	e, the no	rth blowing winds are	
		7)	In w a) c)	hich region does rainfall occ Equatorial Temperate	cur through b) d)	ghout the year? Mediterranean Tropical	
		8)	Rec a) c)	charging of water table deper Relief of the area Amount of percolation	nds on _ b) d)	Amount of rainfall Vegetation of the area	

		9)	A) B)	ich of the following sta Air close to the Eart Air close to the Eart water vapour and du ect the correct answer 2 only	h's surface is l h's surface co ust particles.	neavier ntains a larger quantity of e given below:	
			c)	Neither 1nor 2	d)	Both 1 and 2	
		10)	Exc a)	osphere? Helium	b)	, ,	
	Β\	-	c)	Oxygen	d)	Nitrogen	00
	B)	1)		e blanks. e planetary winds that l	blow from the	sub-tropical high pressure	06
		' /		s to the equator are ki			
		2)		cloud is responsit		ntense rain.	
		3)				vesting (RWH) is	
		4) 5)		nd and sea-breezes oc		 the damage by a hurricane	
		6)	1110	is the lowest atmo			-
	_	,					
Q.2				ollowing.			16
	a) b)			imatology ote on Scales of Atmos	spheric Motion	1	
	•			vaporation and transp		·	
	d)			ote on origin of Thunde			
Q.3	Ans	wer tl	ne fo	ollowing.			
4.0	a)			ature and scope of clir	natology.		08
	b)	Write	a no	ote on Hydrological cy	cle.		08
Q.4	Ans	wer ti	ne fo	ollowing.			
	a)			detail the phenomend			08
	b)	Write clima		ote on Historical backg	ground and eco	onomic importance of	08
				•			
Q.5				ollowing.			00
	a) b)			detail the Tricellular to nvironmental impact o	•	-	08 08
~ ^	, A	·		·			
Q.6	Ans a)			ollowing. ddy theory?			08
	b)			ne profile of Hurricanes	s, its formation	and decay in detail.	08
Q.7	Ans	wer ti	າe fo	ollowing.			
~	a)			ote on structure of Atm	osphere and i	ts composition.	08
	b)			detail the occurrence	•	•	80

No.

				MATÉRIAL S Energy Harvestii			
				7-02-2023 2:00 PM			Max. Marks: 80
nstr	uctio	2) Atte	os. 1 and. 2 are compulsory mpt any three questions fron re to right indicate full marks	n Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i	Poly	blanks by choosing correct mer electrolyte membrane fu e°C. 10-30		_	
			c)	120-150	d)	Above 1000	
		2)	Piezo a) c)	pelectric crystals produce No voltage High voltage	b) d)	Low voltage Very high voltage	
		3)		id capacitor electrodes conta erials. Metal oxide Combination of a) and b)	b)	as the electrod Carbon None of these	de
		4)	The a)	standard emf of the hydroge 1.23 V 3.96 V	n-oxyge b) d)	en fuel cell is 2.54 V 0.58 V	_ ·
		5)	Whic a) c)	ch of the following highest po Capacitor Supercapacitor	wer dei b) d)	nsity value? Battery None of these	
		6)	The a) c)	Fill Factor of the solar cell is Vmlm.Voclsc VmVoc/ Im Isc		Vmlm /Voclsc Voc Isc/Vmlm	
		7)	a) c)	material is used as windo CdSe ZnO	ow laye b) d)	r in the solar cell. CdTe CuInSe ₂	
		8)	Solid °C. a) c)	oxide fuel cells operate at h 250 1000	igh tem b) d)	perature as high as 500 2000	S
		9)	Pseu a) c)	idocapacitors store the charg Faradaic Electrostatically	ges thro b) d)	ough reaction Non-faradaic reac None of these	

		10)		cn of these gases cells?	or liquids are	not u	sed as source of hydrogen i	n
			a) c)	C ₂ H ₆ C ₆ H ₆		b) d)	C ₂ H ₂ C ₂ H ₅ OH	
	B)	Fill i	,	blanks / Write T	rue or False.	u,	02110011	06
	-,	1) 2)	The	is most prefe piezoelectric mat	rable metal oxi erials used for	conv	Dye Sensitized Solar Cell. verting energy are called	
		3) 4)	CdS	is one of the	most preferable ar cells are a fo	e elec urth-	ctrolytes for liquid solar cell. generation solar cell.	
		5)	Sho	ckley queasier lin e <i>I</i> False)	nit is defined fo	r Qua	antum Efficiency.	
		6)	The	,	SSC is lower th	an D	SSC because Multiple exitor	٦.
Q.2	a) b)	Hybri p-n ju Piezo	d sup inctio elect	llowing. percapacitors on solar cell tric materials cell (SOFC)				16
Q.3	a)	Give	an ac	llowing.	•	_	c solar cells.	10
	b)	Write	a no	te on photoelectr	ochemical cen.			06
Q.4	,	wer th	ne fol ribe p	llowing. brinciple, working CdS / Cu ₂ S solar	and materials		SSC solar cells.	06 10 06
Q.4 Q.5	Ans a) b) Ans a)	wer the Description Descriptio	ne fol ribe p date (ne fol ribe co	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor.	and materials cells.	for D	n the electrical double layer	10 06
	Ans a) b)	wer the Description Descriptio	ne fol ribe p date (ne fol ribe co	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor.	and materials cells.	for D		10 06
	Ans a) b) Ans a) b)	wer the Description of the Description of the Elucidose Control of the	ne fol ribe p date (ne fol ribe co seud date s ne fol an ac	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage malocapacitor. symmetric and as	and materials cells. echanism invol	ved i	n the electrical double layer acitor configurations.	10 06

Seat No.	Set	F
	•	

				MATHEMA Numerical Ted		ies	
•				17-02-2023 2:00 PM	•	Max. Mark	(s: 80
Instr	uctio	2) Atte	los. 1 and. 2 are compulsory mpt any three questions fror ire to right indicate full marks	n Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i 1)		blanks by choosing corre auss elimination method the Diagonal matrix Upper triangular matrix	coeffici b)	ent matrix is reduced to Zero matrix	10
		2)	a)	by polynomial equation of the $n \\ n-1$	e n th deg b) d)		
		3)	a)	One	b)	nstant k , Δk equals to Zero $f(x+k) - f(x)$	
		4)	a)	much significant digits in thi 6 11	is numb b) d)	er 204.020050? 8 9	
		5)		$=\begin{bmatrix} 0 & 3 \\ 0 & 0 \end{bmatrix}$ then the eigen valu 0,1 0,0		nre 1,2 2,3	
		6)		rton's difference interpolation near the beginning Forward Central		ar values.	
		7)		g bisection method, the real 2 and $x = 4$ is near to 2.75 2.2	roots of b) d)	$f x^3 - 9x + 1 = 0$ between 4.1 3.5	
		8)		at is the value of the determin	l_1	5 2 4 5 2 3	
			a) c)	-56 -54	b) d)	-58 -66	
		9)		positive root of the equation nod and correct to 4 decimal 2.7065 2.7214		c-9=0 using Regula Falsi is 2.7123 2.0602	

- 10) The equation $x^2 + 3x + 1 = 0$ is known as _____. Algerbraic equation b) Cubic equation Transcendental equation d) Identity equation c) 06 B) Fill in the blanks. Newton's interpolation formula is used when arguments are _____ The degree of y(x) in Simpson's $\frac{3}{8}$ rule is _____. 2) The solution of system of linear equation x - y = 1, x + y = 0 is _____. If $y_1 = 4$, $y_3 = 12$, $y_4 = 19 \& y_x = 7$, then x will be _____. 4) The root of the equation f(x) = 0 lies in interval (a, b) if _____. 5) 6) The averaging operator μy_r is _____. Q.2 Answer the following. 16 Evaluate $\int_0^1 \frac{1}{1+x^2} dx$ using trapezoidal rule by taking $h = \frac{1}{4}$. Solve the following system of equations. b) 2x + y + z = 10, 3x + 2y + 3z = 18, x + 4y + 9z = 16by using Gauss elimination method. Prove that $\Delta \nabla = \Delta - \nabla$. c) d) Find the difference of $\sqrt{102} - \sqrt{101}$ correct to four significant figures. Q.3 Answer the following. Derive a Newton's forward interpolation formula. 10 06 Show that, $\Delta^n u_{x-n} = u_x - n u_{x-1} + \frac{n(n-1)}{2!} u_{x-2} + \frac{n(n-1)(n-2)}{3!} u_{x-3} \pm - - - (-1)^n u_{x-n}.$ Q.4 Answer the following. Find a real root of the equation $x^3 - x - 1 = 0$ by Bisection method, correct 08 upto three decimal places. Reduce the matrix $A = \begin{bmatrix} 1 & 3 & 4 \\ 3 & 2 & -1 \\ 4 & -1 & 1 \end{bmatrix}$ to the tridiagonal form. b) 08 Q.5 Answer the following. Derive Lagrange's Interpolation formula. 80 Find the missing term in the following table. 80 Х 0 1 1 3 2 9 3 ? 81 Q.6 Answer the following.
 - b) Explain Newton Raphson method. 06

Solve the following system of equations:

by using Gauss-Seidal method.

2x + y = z = 20, x + 4y - z = 6, x - y + 5z = 7

10

Q.7 Answer the following.

- a) Find the root of the equation $x^4 x 10 = 0$ by using Newton-Raphson's method.
- b) Find a general formula for numerical integration using Newton's forward difference formula.

No.

	IVI.	SC. (, , , , ,	BIOLOGY	V-2022
		Er	nvironmental Microbiolo	gy and Waste Managemer	nt
-			day, 17-02-2023 I To 02:00 PM	Ŋ	Max. Marks: 80
Instı	ructio	2) Q. Nos. 1 and. 2 are compu) Attempt any three questions) Figure to right indicate full n	from Q. No. 3 to Q. No. 7	
Q.1	A)	Fill i		prrect alternatives given below gas is produced in large and b) H ₂ S d) H ₄	
		2)	is used as an indica a) Starch c) Phenol red	or in determination of COD. b) Ferroin d) None of the above	
		3)	The term ecology was propo a) A.G. Tansley c) Robert Warden	sed by German ecologist b) Ernst Hackle d) Rachel carson	
		4)	BOD stands for a) Biological Oxygen De b) Biochemical Oxygen c) Both a) & b) d) Only a)		
		5)	Which of the following is abi a) Phytoplankton c) Bacteria	otic component? b) Herbivores d) Light	
		6)	to formation of methane and	lic stage in anaerobic digestion t CO2? b) Acidogenesis d) Methanogenesis	hat leads
		7)	The waste water generated a) Dairy c) Paper and pulp	by industry is called Whe b) Textile d) Cyanide	∍y .
		8)	For effective aerobic biologic must be maintaineda) 100:50:10 c) 100:5:1	al treatment process, the BOD:No. 100:50:1 d) 100:0:5:1	√l:P ration
		9)		roduct of anaerobic digestion what of simpler components by ferm b) Biogas d) Calcium	

		10)	 Which of the following is anaerobic biological treatment process? a) Rotating Biological contractors b) Activated sludge process c) Packed column reactors d) Trickling filter 	
	B)	Write 1) 2) 3) 4) 5) 6)	The rate of photosynthesis and that of rate of respiration is balanced in eutrophic lake. (True/False) If you observed high BOD value for industrial effluent, then the water is highly polluted. (True/False) The DO content of water sample is determined by the Dichromate Reflux method. (True/False) The hydraulic retention time or HRT is the amount of time in days for wastewater to pass through a tank, such as aeration tank. (True/False) Bioaugmentation involves the addition of bacterial formulations externally to the wastewater treatment plants. (True/False) When a particular compound is altered chemically by microbial metabolism without that compound serving as a source of carbon or energy, that compound is said to be cometabolised. (True/False)	06
Q.2	Ans a) b) c)	Desc Defin Defin meth Write	cribe in detail about food web. The eutrophication & classified the lakes on basis of their appearance. The chemical oxygen demand & what is the principle of dichromate reflux	16
Q.3	Ans a) b)	Expla differ	rent industrial waste water.	10 06
Q.4	Ans a) b)	Write Defin		10 06
Q.5	Ans a) b)	Write Expla	· · · · · · · · · · · · · · · · · · ·	08 06
Q.6	Ans a) b)	Write	· · · · · · · · · · · · · · · · · · ·	10 06
Q.7	Ans a)	Defin flocci	he following. ne ETP. Explain the terms or process of sedimentation, coagulation, ulation, neutralization which are used in primary treatment of waste r system.	10
	b)			06

Seat	Set	D
No.	Set	P

		`			ÉROBIOLOGY tural Microbio		
Day	& Da	te: Fri	day, 1	7-02-2023			Max. Marks: 80
Time	e: 11:0	00 AM	1 To 02	2:00 PM			
Instr	uctic	2) Atte	los. 1 and. 2 are compt any three questre to right indicate	stions from Q. N	o. 3 to Q. No. 7	
Q.1	A)	Fill i		blanks by choos oid plants can be o Bud Root	_	rnatives given below culture. Leaf Anther	<i>i</i> . 10
		2)	Verti a) c)	cle section through Profile Texture	n the soil is calle b) d)	d soil Depth Graph	
		3)	a) c)	is a plant horm Auxin Cytokinin	one generally pr b) d)	resent in gaseous stat Ethylene Abscesic acid	e.
		4)	plant a) c)		nitrogen fixing ro b) d)	oot nodules of legumir Nitroalbunin Cyanocobalamin	nous
		5)	The a) c)	process of using n control. Biological Physical	atural predator t b) d)	o control pathogens is Chemical Artificial	s called
		6)	a) c)	serves as impo Clostridium Rhizobium	ortant biofertilize b) d)	r in paddy fields. Cyanobacteria Mycorrhiza	
		7)	The a) c)	process of convert Conservation Metabolism	ting wet waste to b) d)	manure is called Incineration Composting	.
		8)	The calle a) c)		b)	ous by microorganism Nitrification Ammonification	ns are
		9)	a) c)	can be used to Gypsum Lime	correct acidic so b) d)		
		10)	a) c)	is commonly k Snake Rat	nown as friends b) d)		

	B)	Write True or False.	06
		Rhizobium is nonsymbiotic nitrogen fixer.	
		Clay is the smallest particle of soil.	
		 Azolla is used as biofertilizer contains Azotobactor. 	
		4) Trichoderma is used for biocontrol against plant diseases.	
		5) Thiobacillus thioxidans is capable of oxidizing sulfur to Sulfates.	
		6) B.T. Cotton is not example of transgenic plant.	
O 2	۸na	war the following	16
Q.Z		wer the following	10
	a)	Blue green algae as a biofertilizer Degradation of cellulosic waste	
	b)	General components of soil	
	c) d)	Toxins produced by bacteria for pest control	
	uj	Toxins produced by bacteria for pest control	
Q.3	Ans	wer the following	
	a)	Comment on Economic and future prospects of Biopesticides.	80
	b)	Describe various methods of application and evaluation of Biofertilizers.	80
Q.4	Δns	wer the following	
Q .¬	a)	Describe in detail Carbon cycle in soil.	08
	b)	Write an essay on "PGPR".	08
	υ,	white all coody on T of It.	00
Q.5	Ans	wer the following	
	a)	Write an essay on "Plant tissue culture".	80
	b)	Write an essay on "Green Manure".	80
Q.6	A 10 0	way the following	
Q.b		wer the following Describe in detail pest control by using <i>B. Thuringiensis</i> .	08
	a) b)	Describe in detail production of Rhizofertilizers.	08
	D)	Describe in detail production of Milzorettilizers.	UU
Q.7	Ans	wer the following	
	a)	Describe various types of microorganisms in soil and their role in soil	80
	-	fertility.	
	b)	Comment on Development of Genetically modified crops plants.	80
	•		

110.	Seat No.	Set	Р
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	IVI.	3 C. (, ,	ROBIOLOGY	mination: Oct/Nov-2022	
			Environment and Wa	ste Managen	nent Technology	
-			day, 17-02-2023 I To 02:00 PM		Max. Marks	3: 80
Insti	ructio	2) Q. Nos. 1 and. 2 are con) Attempt any three quest) Figure to right indicate fo	ions from Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i	n the blanks by choosing The rate of biogeocycling a) Nitrogen c) Carbon	•	natives given below. Hydrogen Oxygen	10
		2)	In a food web, the amounted to next higher troph a) 10-15% c) 30-40%		ansferred from one trophic 20-25% About 50%	
		3)	Self regulating biological is called a) Biosphere c) Ecosystem	communities arb) b) d)	nd their physical environment Ecosphere Ecophene	
		4)	a) Rhizobium c) Azospirillum	naerobic nitroge b) d)	n fixing bacterium. Azotobacter Clostridium	
		5)	are the potentia a) Bacterial cells c) Pollen grains	l air born allerge b) d)	ens. fungal spores Lichen fragments	
		6)	of the following ia) Amoebiasisc) Gastreoenteritis	s not a diarrhoe b) d)	al waterborne disease. Giardiasis Poliomyelitis	
		7)	,	O2 from burning of NH3 by industrated in the contract of the c	g fossil fuels etry and coal gas by incomplete combustion sustion and animal respiration	
		8)	Tertiary treatment of sew a) BOD c) Nitrates and phosp	b)	to remove Bacteria Protozoa	
		9)	step remove the demand (BOD) in sewag a) Activated sludge c) Primary treatment	je. b)	t of biochemical oxygen Flocculation Sludge digestion	

		 10) Air spora refers to a) Spora of microorganism in air b) Spores and vegetative cells in air c) All biological particles in air d) All particulate matter in air 	
	B)	 Write True or False. The biotic environment interacts with its abiotic environment to form an ecosystem. One of the main problems associated with mining is water pollution. The EMB agar is used for completed test. El nino takes place in coast land of Peru & Ecuador. Pseudomonas putida is super bug used to degrade oil spills in water bodies. Bacillus thuringiensis is used in genetically modified crop of soyabean. 	06
Q.2	Ans a) b) c) d)	wer the following. Write a short note on ecological pyramid. Write short note on acid rain. Write in details on dairy waste. El Nino	16
Q.3	Ans a) b)	wer the following. Write in detail waste water disposal control and regulations. Describe waste management and treatment of textile waste.	08 08
Q.4	Ans a) b)	wer the following Describe Environmental Impact assessment. Write in details on genetically engineered microorganisms in pollution control.	08 08
Q.5	a)	ewer the following Explain biotic and abiotic environment. Write in details on bioaugmentation.	08 08
Q.6	Ans a) b)	wer the following Write characteristics and types of reactors. Write in detail critical operation parameters	08 08
Q.7	Ans a) b)	wer the following Write composition and structure of environment. Describe food webs and trophic structure.	08 08

Seat No.	Set	P
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		`		PHYSICS (NANC Energy Harvestir		•		
-				7-02-2023 2:00 PM	.9 20		Max. Marks: 8	80
Instr	uctio	2) Atte	os. 1 and. 2 are compulsory. mpt any three questions from re to right indicate full marks	n Q. No	. 3 to Q. No. 7		
Q.1	A)	Fill i 1)	Poly	blanks by choosing correct mer electrolyte membrane fur e°C. 10-30 120-150		•		10
		2)	,	oelectric crystals produce No voltage High voltage	,	Low voltage Very high voltage		
		3)	-	id capacitor electrodes conta erials. Metal oxide Combination of a) and b)	b)		de	
		4)	The a) c)	standard emf of the hydroge 1.23 V 3.96 V	n-oxyge b) d)	en fuel cell is 2.54 V 0.58 V	_ .	
		5)	Whice a) c)	ch of the following highest po Capacitor Supercapacitor	wer der b) d)	nsity value? Battery None of these		
		6)	The a) c)	Fill Factor of the solar cell is Vmlm.Voclsc VmVoc/ Im Isc	FF= b) d)	Vmlm /Voclsc Voc Isc/Vmlm		
		7)	a) c)	material is used as windo CdSe ZnO	ow layer b) d)	in the solar cell. CdTe CuInSe ₂		
		8)	Solic °C. a) c)	l oxide fuel cells operate at h 250 1000	igh tem b) d)	perature as high as 500 2000	3	
		9)	•	idocapacitors store the charg Faradaic Electrostatically	,			

		10)		cells?	s or liquids are	not u	ised as source of hydrogen ir	l	
			a) c)	C ₂ H ₆ C ₆ H ₆		b) d)	C ₂ H ₂ C ₂ H ₅ OH		
	B)	Fill i	,	blanks / Write	True or False.	u,	02.10011	06	
	-,	1) 2)	is most preferable metal oxide in Dye Sensitized Solar Cell.						
		3) 4)	is one of the most preferable electrolytes for liquid solar cell. CdS/Cu ₂ S based solar cells are a fourth-generation solar cell. (True / False) Shockley queasier limit is defined for Quantum Efficiency. (True / False)						
		5)							
		6)	The	,	SSC is lower th	an D	SSC because Multiple exiton		
Q.2	a) b)	swer the following. Hybrid supercapacitors p-n junction solar cell Piezoelectric materials SO Fuel Cell (SOFC)					16		
Q.3	Ans a)	Give		llowing.	•	_	c solar cells.	10	
	b)	Write	a no	te on photoelectr	ochemical cell.			06	
Q.4	,	wer ti Desc	ne fol ribe p	te on photoelectr llowing. principle, working CdS / Cu ₂ S solar	and materials		SSC solar cells.	06 10 06	
Q.4 Q.5	Ans a) b) Ans a)	wer ti Desc Eluci wer ti Desc and p	ne fol ribe p date (ne fol ribe co	llowing. orinciple, working CdS / Cu ₂ S solar llowing. charge storage m locapacitor.	and materials cells.	for D	n the electrical double layer	10 06 10	
	Ans a) b)	wer ti Desc Eluci wer ti Desc and p	ne fol ribe p date (ne fol ribe co	llowing. orinciple, working CdS / Cu ₂ S solar llowing. charge storage m locapacitor.	and materials cells.	for D		10 06	
	Ans a) b) Ans a) b)	wer the Description of the Description of the Elucion of the Eluci	ne fol ribe p date (ne fol ribe co seud date s ne fol an ac	Ilowing. orinciple, working CdS / Cu ₂ S solar Ilowing. charge storage mage mage storage storage mages storage storage mages and assummetric and assummetri	and materials cells. echanism involusymmetric supe	for D ved i ercap	n the electrical double layer acitor configurations.	10 06 10	

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Seat	Set	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 PHYSICS (SOLID STATE PHYSICS) Energy Harvesting Devices

				Energy l	Harvesting	Dev	/ices	
•				17-02-2023 2:00 PM			Max. Marks	s: 80
Insti	ructio	2) Atte	los. 1 and. 2 are compt any three que ure to right indicate	stions from Q). No.	. 3 to Q. No. 7	
Q.1	A)	Fill i	The	working electrode trode are key para Silicon solar cell	, sensitizer (d meters of	ye), r b)	natives given below. redox mediator and a counter	10
		2)	(E_g)		, whe	re Δ <i>t</i> b)	sity (P_g) and energy density t is discharging time. $P_g = \frac{\Delta t}{E_g}$ $P_g = \frac{\Delta t}{E_g} \times C_p$	
		3)	The the a) b)	tip mass, material	for beam and e crystal piezo rature range ency range	d dim	ensions of beam determine	
		4)		lel cells, the cataly Convert element Convert atoms in Split hydrogen at Convert molecule	s into gases nto ions toms into hydi		 n ions and electrons	
		5)	the		•		t the maximum power point of ht at which the solar cell is Open circuit voltage Short circuit current	
		6)	Vibra) b) c) d)	ation of a rigid bod Unbalanced mas Tear of materials Wear of material All of the above	s in a system		oy	

		7)	In M a) b) c) d)	IS solar cells, the carr Quantum mechanica Diffusion effect Metal insulator thrott Electron affinity effect	al tunnelling		gh the insulating layer by ect	
		8)		alvanostatic Charge D ged at a constant Current Voltage	• ,))), the supercapacitor is Time Resistance	
		9)		easing the number of ones increases the Voltage Resistance)	cell stack connected in Current Capacitance	
		10)		ication depend on	 ire range range	СО	mposition for a particular	
	B)	Write 1) 2) 3) 4) 5) 6)	The Can for p Com In te and Solid from Grap	piezoelectric energy han pare to heat engine for trms of Ohm's law, the the photocurrent is ve d oxide fuel cells use a the anode to the cath	p mass is the arvesting devoted cell has reproved the photovoltage by low at version electrolytemode.	e n vice moi ge i ge th	nost widely used configuration e. The energy transformations R_L ,	06
Q.2	Ans a) b) c) d)	Write Write Give	a no a no comp	llowing. te on dye sensitized s te on the basics of pie parison between batte e photovoltaic effect	zoelectric er	ner	gy harvesting.	16
Q.3	Ans a) b)	Expla	in the	llowing. e concepts photoelect te on solar cell charac		and	l photo electrolysis cells.	10 06
Q.4	Ans a) b)	Expla Write	in en a no	llowing. ergy storage mechani te on Cyclic Voltamme citors.	•			10 06
Q.5	Ans a) b)	Discu	ıss pr	llowing. roton exchange memb te on characteristics a				10 06

Q.6	Ans a)	wer the following. Discuss the Mechanical energy harvester using laser micromachining and piezoelectric fibers.	10
	b)	Give detailed account of piezoelectric materials.	06
Q.7	Ans a) b)	wer the following. Write a note on galvanic cell. Write a note on Electrochemical impedance spectroscopy characterization of supercapacitors.	80 80

Seat	Sat	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		0 0. (3011100101	STATI	STICS		
•			day, 17-02-2 To 02:00 PN		olali51	Max. Marks	: 80
Inst	ructio	2) Attempt any	o. 1 and 2 are con three questionsght indicate full ma	from Q.	y. No. 3 to Q. No. 7.	
Q.1	A)	M ulti 1)	a) A list ofb) A list of	ame is a term use random numbers voters sampling units of			10
		2)	units with real $\binom{N}{n}$	r of possible sampeplacement is	 b)	size n from a population of size N \mathbb{N}^n	
		3)	termed as _ a) cyclic v	<u> </u>	b)		
		4)	a) Arithme	red type of the ave tic mean nic mean	b)		
		5)	test? a) Laspey	_	- b)	factor reversal and time reversal Paasche's index number All of these	
		6)	a) Simpleb) Simplec) Both SF	random sampling	with re withou OR	selection remain same in placement (SRSWR) t replacement (SRSWOR) OR	
		7)	may be incl a) Only on	uded in the sampl		acement, the same sampling unit Only twice Hundred times	
		8)	a) Can beb) Cannotc) Can so	lue to assignable of removed removed metimes be remove ible to remove		.	

		also known as a) Cost of living index b) Fisher's price index c) Either cost of living index or Fisher's index d) Neither cost of living index nor Fisher's index	
		 The value of Net Reproduction Rate (NRR)>1 is indicative of a) Increase in population b) Reduction in population c) Constancy in population d) All of the above 	_·
	B)	 Write True / False. The increase in sales of a departmental store on Dushera and Diwa are associated with the seasonal component of time series. The sample should always be 5% of the total population. The variation due to manmade reasons is called as assignable caus variation. Increase in prices of Air Conditioners in Summer is an example of cyclical variation of time series. Base year for Index numbers should be an year in which flood or earthquake has occurred. Chance causes can be completely removed from the process. 	
Q.2	a)	wer the following Explain time reversal test for index numbers. Explain non-sampling errors. Write a note on life tables. Explain factor reversal test for index numbers.	16
Q.3	a)	wer the following. What is cost of living index number? Explain its uses. Describe the procedure followed in its construction. Explain the advantages of sampling. Also explain simple random sampling with replacement as well as simple random sampling without replacement.	16
Q.4	a)	wer the following. What is time series? Describe in brief its components. Give example of each component. Explain, in detail, stratified random sampling. Discuss the allocation problet for this method.	
Q.5	a)	wer the following. Discuss the below methods for measurement of trend. 1) Moving average method 2) Progressive Average method Explain the construction of mean and range control charts, giving formulae for upper and lower limits in both cases when sample means and sample ranges are given.	16

Q.o / alouoi alo lollowing.	Q.6	Answer	the fo	llowing.
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- a) Explain the terms:
 - 1) Crude Death Rate
 - 2) Specific Death Rate
 - 3) Standardized Death Rate
 - 4) Total Fertility Rate
 - 5) Crude Birth Rate
- **b)** Explain the need of base shifting for index numbers. Also explain how base shifting is carried out.

Q.7 Answer the following.

16

16

- a) Discuss the c chart for number of defects per unit.
- **b)** Define the following index numbers:
 - 1) Laspeyre's index number
 - 2) Paasche'S index number
 - 3) Fisher's index number

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Set	Sat	D
No.	Set	

M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		5 0. (1	5 0		ZOOLOGY	AGII		
				Wild Life and		tion	Biology	
-			-	17-02-2023 02:00 PM			Max. Marks:	80
Instr	uctio	2) Atte	Nos. 1 and. 2 are co empt any three ques ure to right indicate	stions from Q.	No.	3 to Q. No. 7	
Q.1	A)	Cho 1)	Whi	t 100 yrs? 2001, Bhuj earthq 2004, Sumatra ea	arge magnitud uake urthquake uquake	e ea	arthquake occurred during	10
		2)		interconnected net nown as Foodchain Food box	ı	ng re b) d)	elationship within an ecosystem Food mass Food web	
		3)	Floo a) c)	ods can be prevente afforestation tilling the land	k	o) d)	cutting the forests removing the top soil	
		4)	Whi a) c)	ich of the following i Soil Flora and fauna	k	e res o) d)	ource? Water All the above	
		5)		ich of the following on angered species? Fishes Reptiles	I	ave t b) d)	he highest number of Birds Mammals	
		6)	In E a) c)	cological pyramid s Eco level Mass level	I	el of b) d)	the pyramid is called Bio level Tropical level	
		7)	A poas _as _ a) c)	oint on the surface of the control of the conternation of the conternation of the control of the	1	ertica b) d)	Hypocenter None of the above	
		8)	a) c)	is the hotspot of Eastern Ghats Sundarbans	ا	n Ind b) d)	lia. Western Ghats Gangetic plains	
		9)	Hov a) c)	v an organism is su Competition Addition	I	a pai b) d)	rticular place is called Adaptation Participation	

		10)	All t a) c)		nals for mi	established ilk	to b) d)	entrap animals none of the above	
	B)	 1) 2) 3) 4) 	Wild a) 1 Bac a) F WW a) 1	dlife Proted 970 b) 19 cteria and Producers /F-India ed 956 b)196 is the r Plant leave	ction Act w 71 c) 1928 Earthworn b) Decom stablished 60 c) 1976 najor raw es b) Cow	3 d) 1972 as are called posers c) County year is 3 d)1969 material for dung c) Mu	ented d consur bioga	mers a) None of these as. Grass	06
		5) 6)	Ŵh	Nitrogen b) ich is the r	Hydroger non-renew	ovides protence) Ozone or able resourgetation d) (d) Arg ces?		
Q.2	a) b)	Give Write Write	an a a no a no	ote on Eco ote on Rec	l Data Boo	•	es.		16
Q.3		What	is T					f Tsunami on ecosystem. Suitable example.	16
Q.4	Ans a) b)	Desci Give	ribe an a	ccount on	Captive b	•	endan	s. gered species. Add a note on preeding methods.	16
Q.5	Ans a) b)	Write	a N			ith Suitable fecting ecos		nples. n and community structure.	16
Q.6	Ans a) b)	Expla	in th	•	_	ctors affectin hquakes or	_	the ecosystem. system.	16
Q.7	Ans a) b)	Give	an a			tion of natu d life act,19		d natural resources.	16

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M.Sc. (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

		`			ÒOLOĞY	4 17	
				7-02-2023 2:00 PM	y and Etholo	9y Max. Ma	arks: 80
		ns : 1) Q. N) Atte	los. 1 and. 2 are con mpt any three quest re to right indicate fu	ions from Q. No	. 3 to Q. No. 7	
Q.1	A)	Fill i	The		mong organism	natives given below. is and between organisms Ecology	10
			c)	Ethology	ď)	Economy	
		2)			belonging to sa	me species live in area is	
			calle a) c)	Community Population	b) d)	Ecosystem Biosphere	
		3)	The a) c)	original source of er Sunlight Producers	nergy in almost o b) d)	of all the ecosystem is Water Soil	<u>_</u> .
		4)	The a) c)	energy flow in an ec Bidirectional Non moveble	cosystem is b) d)	 Multidirectional Unidirectional	
		5)	A pa as _ a) c)	rticular place inhibite Niche Habitat	ed by an organis b) d)	sm or community is known Biome Habit	
		6)		essociation between efited is called Competition Protocoperation	both the individence b) d)	uals or populations get Mutualism Commensalism	
		7)	The a) c)	total amount of living Biomass Energy flow	g tissue within e b) d)	cosystem is called Abiotic component Organic mass	
		8)		community the mode complex network is o Food chain Energy Flow		r from producer to consumer Food web Energy Pyramid	•
		9)	The a) c)	branch of biology wh Zoology Ethology	nich deals with a b) d)	animal behavior is called Ecology Evolution	<u></u> .

		10)	The a)	inherited or innate beh Imprinting	avior is also b)	called Maturation	
			c)	Instinct	d)	Learning	
	B)	Write	e Tru	e or False.			06
	·	1) 2)	Para	tat provides food, protestitism is an association repopulation for food ar	n between or	nelter to an organism. ne population is depend on	
		3)	Clim	ax community is a resu	ult of Ecologic		
		4) 5)		ning benavior is a cnai cholocation bat capturir	•	ior by life experience is calle	ea.
		6)				hat approximately 24hrs long	g.
Q.2				lowing.			16
	a)	Defin exam		system? Give an acco	unt on struct	ure of ecosystem with suitab	ole
	b)			te on Primary ecologica			
	c) d)			mmensalism? Describ- term ethology? Give a		•	
Q.3				lowing ail account on structure	and function	n of nand accountant	10
	a) b)	Desc		ne ecological pyramid?		amid of energy in grassland	06
Q.4	Ans a)			lowing	rise account (of various characteristics of	10
	u,			of organism.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	or various characteristics of	10
	b)		is ec nunity	•	lention all the	e important characteristics of	f 06
Q.5	Ans	wer th	ne fol	lowing			
	a)		-	mbiosis? Give a broad organism.	account on v	various types of interaction	10
	b)		_	logical rhythm. Describ	e types of bi	ological rhythms.	06
Q.6				lowing			
	a)	What orgar		tagonism? Describe in	detail negati	ive interaction among the	10
	b)			Pollution. Give an acc	ount on caus	e of air pollution.	06
Q.7	Ans			lowing			
	a) b)			count of abiotic and bi- ruistic behavior? Desc		•	10 06

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Seat	Sot	D
No.	Set	

M.A. (Rural Development) (Semester - III) (New) (CBCS) Examination:

	(-	Oct/Nov	_		
		Human Dev	elop	ment	
•		: Friday, 17-02-2023 AM To 02:00 PM		Max. Marks:	70
Instr	uction	s: 1) All questions are compulsory. 2) Figures to the right indicate full	l mark	S.	
Q.1	Choo	ose the correct alternatives from the Who secured the lowest rank in The a) Afghanistan			16
		c) Niger	d)	Kenya	
	2)	What is the rank of India in the Huma) 142 nd c) 140 th	an De b) d)	evelopment Index 2018? 136 th 130 th	
	3)	When was the Gender Inequality Inc a) 2010 c) 1999	dex (0 b) d)	GII) introduced? 2011 2005	
	4)	Which of the following index is not ra) Human Development Indexc) Gender Inequality Index		Multidimensional Poverty Index	
	5)	Which of the following is not one of Index? a) Longevity c) Descent standard of living	the fa b) d)	ctors related to Human Developmen Literacy Increase in Govt. Jobs	ıt
	6)	Who was the originator of the Huma a) Amartya Sen c) Mahboob-ul-Haq	n Dev b) d)	velopment Report? Jan Tinberger Dr. Manmohan Singh	
	7)	The state having the highest literacy a) Kerala c) Bihar		in India Tamil Nadu Rajasthan	
	8)	Which scheme was started in 1993 opportunities for educated unemplo towns?			
		 a) Prime Minister Rozgar Yojana b) National Rural Employment Gu c) Rural Employment Generation d) Swarnajayanti Gram Swarozga 	Progra	amme	
	9)	For how many days NREGA provide a) 70 c) 90	es em b) d)	ployment? 80 100	

10)	Who is considered as poor? a) Landlords c) A rich farmer	b) d)	Landless labourer Businessman	
11)	Women and children under the age	,		
	due to: a) Malnutrition c) Fats	b) d)	Healthy diet at None of the above	
12)	By which year governments are aim Goals including having the rate of gl a) 2011 c) 2045	_	•	
13)	Which of the following is an indicato a) Income level c) Employment level	r of po b) d)	overty in India? Illiteracy level All of these	
14)	Which one of the following Economi a) Scheduled Caste c) Rural Agricultural Household	c grou b) d)	ups is vulnerable to poverty? Scheduled Tribes All the above	
15)	In which year was N R E G A enacte a) 2005 c) 1999	ed? b) d)	2000 1993	
16)	HDI means a) Human Development Industry b) Human Development Index c) Human Development Investigat d) None of these	ion		
Ans a) b) c) d) e)	Wer the following questions. (Any Foundation what is the meaning of Human capital What is the significance of human results what is the meaning of economic secondary what is the meaning of human development what is the meaning of human pover What are the criteria for selecting capital ways.	al? source curity opme ty ind	? nt? ex?	16
Ans a) b) c) d)	wer the following questions. (Any 1 What are the reasons for decline food Explains the physical quality of life in What are the components of quality of What is the social determinants of Hu	d grai dex of life?	>	16
	wer the following questions. (Any Clain the Gender Empowerment Measu	re.		16
Elab	porate Marshall Utility of a Commodity	=	pach.	
Disc	cuss the social determinants of human	deve	lopment in detail.	16

Q.2

Q.3

Q.4

Q.5

			J	. •					
Sea No.			Set	P					
M	I. A . (A.I.H.C & A) (Semester - III) (New) (CBCS) Examination	n: Oct/No	V-					
	2022								
Day	9 Do	Archaeology	Max. Mark	o: 00					
-	Day & Date: Friday, 17-02-2023 Max. Marks: 80 Time: 11:00 AM To 02:00 AM								
सुचन	सूचना : 1) सर्व प्रश्न अनिवार्य आहेत.								
C	,	,) उजवीकडील अंक पुर्ण गुण दर्शवितात.							
 .				4.0					
Я.1	હ્યાલ 1)	ोल दिलेले योग्य पर्याय निवडून गाळलेल्या जागा भरा. —— यांनी ''त्रियुग प्रणाली'' चा सिध्दांत मांडला.		16					
	'/	अ) सी. जे. थॉमसेन ब) चार्ल्स डार्विन							
		क) विलम जोन्स ड) पिट रिवेर्स							
	2)	अशोकाला त्याच्या शिलालेखात सामान्यातः —— या नावाने संबोधले	आहे.						
	_,	अ) चक्रवर्ती ब) देवराजा							
		क) धर्मकीर्ती ड) प्रियदर्शी							
	3)	कोणत्या सातवाहन राजाने सर्व प्रथम आईच्या नावासोबत आपले नाव	जोडले?						
		अ) गौतमीपुत्र सातकर्णी ब) सातकर्णी							
		क) विशष्ठपुत्र पुलुमावी ड) हे सर्व							
	4)	विक्रमसंवत युगाची सुरुवात —— काळात झाली.							
		अ) इ.सन. ७८ ब) इ.सन पूर्व ७८							
		क) इ.सन ५८ ड) इ.सन.पूर्व ६८							
	5)	पुरातत्व हा शब्द —— भाषेतून आला आहे.							
		अ) लॅटिन ब) ग्रीक							
		क) फ्रेंच ड) इंग्रजी							
	6)	सरस्वतीच्या हातात खालीलपैकी कोणती वस्तू ठळकपणे दिसते?							
		अ) वीणा ब) चक्र							
	_\	क) शंख ड) डमरु							
	7)	स्तूप उत्खननासाठी —— पध्दत योग्य आहे. अ) पायरी							
		अ) पायरी							
	٥/								
	8)	विद्वानांच्या मते 'निष्क हे सोन्याचा —— आणि —— आहे. अ) दागिने आणि नाणे							
		क) हार आणि मुकुट ड) हार आणि दागिने							
		9) et sin 1 343 - 0) et sin 1 411 1							

9)	गुपतकाळात खालीलपैकी कोणत्या ६ आली?	गतूमध	ये सर्वाधिक नाणी जारी करण्यात	
	अ) सोने	ਕ)	चांदी	
	क) तांबे		 Чпळ	
10)	ं अलेक्झांडरने भारतावर केव्हा आक्रम	, ग केत	जे ?	
10)	अ) इ.स.पूर्व 110		इ.स.पूर्व 327	
	क) इ.स.पूर्व 150	-	इ.स.पूर्व 240	
44)	राजघराण्याने पोटीन नाणे जा	•		
11)	=== राजवराज्यान पाटान नाण जा अ) क्षत्रप		त. सातवाहन	
	क) वाकाटक	,	चोल	
40)	•	O)	91101	
12)	भैरव हे शिवाचे —— रुप आहे. अ) सौम्य	<u>ਜ</u> \	.1) -	
	,	,	रौद्र यापैकी नाही	
	क) नृत्य	,	वापका चाहा	
13)	—— हा पक्षी कार्तिकेयाचे वाहन अ		_	
	अ) कोंबडा	,	मोर	
	क) चिमणी	,	पोपट	
14)	—— यांनी भारतात प्रथम पुरातत्व		•	
	अ) मॉर्टिमर व्हीलर	,	जॉर्न मार्शल	
	क) ह. धी. सांकलिया	ड)	के. एन. दीक्षित	
15)	—— हे एशियाटिक सोसायटी ऑफ			
	अ) विल्यम जोन्स	,	अलेक्झांडर कनिंगहॅम	
	क) लॉर्ड कर्झन	ਫ)	लॉर्ड बेंटिक	
16)	भारतातील शैलचित्रे साधारपणे ——	- च्या	जीवन पध्दतींची पुनर्रचना करण्यास	
	मदत करतात. अ) मुरामाणा	त)	मध्यपाषाण	
	अ) पुरापाषाण क) नवपाषण	ब) ड)	ताम्रपाषण	
	47) 144141	9)	(II)AIIA-I	
खार्ल	ोलपैकी प्रश्नांची थोडक्यात उत्तरे लिहा	. <i>(</i> को	णतेही चार)	16
अ)	विक्रम सवंत	`	,	
ৰ)	सागरी पुरातत्व			
क्)	सोपान पायरी उत्खनन पध्दत			
ड) ~\	हात कु-हाड			
इ) ई)	पुरातत्वाची व्याप्ती पुरातत्वशास्त्राच्या व्याख्या			
२)	पुरातिसार्त्राच्या व्याख्या			
खार्ल	ोलपैकी प्रश्नांची उत्तरे लिहा. (कोणतेर्ह	ो दोन	r)	16
अ)	पुरातत्व स्थळांवर तपशीलवार नोंद ि	लेहा.	•	
ब)	शेषशायी विष्णूच्या मूर्तीशास्त्राचे वर्णन			
क) \	प्रागैतिहासाची व्याख्या आणि व्याप्ती			
ভ)	।गरनारच्या आज्ञवर आधारित अशोक	ाच्या	धार्मिक धोरणावर टीकात्मक टीप लिहा.	

Я.2

Я.3

		<u> </u>		Δ	\sim	
ਧ⊿	खालीलपैकी	पश्नाचा	तत्तर	ालहा	(काणतज्ञा	एक।
/I.T	MICHCI 1441	71 11 911	0111	ICIGI.	(301 10101	2 7.7

16

मानव भूतकाळाच्या पूनर्बांधणीसाठी 'पुरातत्व स्रोतांचे' टीकात्मक परीक्षण करा. **किंवा**

उत्खननाच्या विविध पध्दतींची तपशीलवार चर्चा करा.

प्र.5 पुरातत्व हा बहुविद्याशाखीय विषय कसा योग्य आहे ते तपशीलवार उदाहरणासह स्पष्ट 16 करा.

Seat	Sat	D
No.	Set	

IVI	·A. (A	202		Obos, Examination. Octivo	, v –
		Archaed	olog	у	
-		e: Friday, 17-02-2023 D AM To 02:00 AM		Max. Mark	s: 70
Instr	uctior	ns: 1) All questions are compulsory. 2) Figures to the right indicate full	mar	ks.	
Q.1	Choo 1)	put forth the theory of three a) C.J. Thomson c) William Jones	-		16
	2)	The name by which Ashoka is gene a) Chakravarti c) Dharmakirti	rally b) d)	referred in his inscription Devraja Priyadarsi	
	3)	Which Satavahana kings name alor first time a) Goutamiputra Satakarni c) Vashistputra pulumavi	ng wit b) d)	Satakarni	
	4)	Vikramsavant Ear was started in a) 78 A.D. c) 58 A.D.	b)	period. 78 B.C. 68 B.C.	
	5)	The word Archaeology came from _a) Latin c) French	b) d)	language. Greek English	
	6)	Which of the following is seen prom a) Veenac) Conch	inent b) d)	ly in hands of Saraswati? Chakra Damaru	
	7)	method is suitable for excava) a) Step Trench c) Horizontal	/atior b) d)	n of stupa. Quadrant Vertical	
	8)	According to Scholar 'Nishka is a go a) Jewellery and coin c) Necklace and crown	bld b) d)	and Piece and coin Garland	
	9)	In which among the following metals in Gupta Era? a) Gold c) Copper	s, larç b) d)	gest number of coins were issued Silver Brass	
	10)	When was India invaded by Alexanda) 110 BC c) 150 BC	der? b) d)	327 BC 240 BC	

SLR HD-75

	11)	Potin coin was issued by dynasty. a) Kshtrapa b) Satvahana	
		a) Kshtrapab) Satvahanac) Vakatakad) Chola	
	12)	Bhairav is form of Shiva.	
		a) Soumya b) Roudra c) Nrutya d) None of these	
	13)	is the mount of Kartikeya. a) Cock b) Peacock	
		c) Sparrow d) Parrot	
	14)	The scientific methods of archaeology introduced first in India by a) Mortimer Wheeler b) John Marshal c) H.D. Sankalia d) K.N. Dixit	
	15)	is the founder of Asiatic society of Bengal. a) William Jones b) Alexander Cunningham c) Lord Curzon d) Lord Bentik	
	16)	Rock paintings in India generally help to reconstruct life ways of a) Palaeolithic b) Mesolithic c) Neolithic d) Chalcolithic	
Q.2	a) b) c) d)	Ver the following questions. (Any Four) Vikram Era Marine Archaeology Step trend Excavation method Hand axe Scope of Archaeology Definitions of Archaeology	16
Q.3	a) b) c)	Wer the following questions. (Any Two) Write a note on archaeological sites in details. Describe the Iconography of Sheshasasayi Vishnu. Explain the definition and scope of prehistory. Write a critical note on Ashokas religious policy based on Girnar edicts.	16
Q.4		ver the following questions. (Any One) ally examine the 'Archaeological Sources' for reconstruction of human past. OR	16
	Disc	ss various methods of excavation in detail.	
Q.5	Write	3, 1 , ,	16

Seat No.	t					Set	Р
М.	M.A. (Prakrit) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 Aa. Kundkunda And His Literature						
-			riday, 17-02-2 M To 02:00 Pl			Max. Marks	: 80
सूचना	-		प्रश्न अनिवार्य वीकडील अंक	ं आहेत. पुर्ण गुण दर्शवितात	Г.		
	खार्ल 1)	बार		र्पाय निवडून गाळले र्गन आचार्य कुंदकुंद	यांच	जागा भरा. या —— रचनेत आहे. बारा भावना	16
		-	बारसाणूवेक्खा	Ī	,	कार्तिकेयानुप्रेक्षा	
	2)	आ	वार्य कुंदकुंद य	गांनी —— प्राभृतांर्च	ो रच	ना केल्याचा उल्लेख मिळतो.	
	•	अ)	~ ~	C	ब)	80	
		क)	108		ਫ)	84	
	3)		विशेषण देव	र अंगुल आकाशात ऊन गौरवले आहे.		गमनाची ऋध्दी प्राप्त असल्याने त्यांना	
		,	सर्वज्ञ		,	अरिहंत	
	•	,	कलिकालसर्वः		,	पूज्यपाद	
	4)		लाचे महत्व सा गुतात आहे.	गून शीलाशिवाय म	नुष्यभ	वाची निरर्थकता असे वर्णन ——	
		,	गोक्ष पाहुड मोक्ष पाहुड		ब)	शील पाहुड	
		-	बोध पाहुड		<u>ਭ</u>)	सुत्र पाहुड	
	5)	आ	चार्य अतमृतचंद्र	नुसार गाथ	ा 'प्रव	चनसार' या ग्रंथात घेतल्या आहेत.	
		अ)	275		ब)	775	
		क)	75		ड)	311	
	6)			—— भाषेतून देशभी			
		-	संस्कृत		ब)	हिन्दी	
		•	प्राकृत -		•	गुजराथी	
	7)			ान चारित्राने वैभवार			
		,	स्वर्गाची भौ रिको वि		,	निर्वाणाची	
	,	,	भौतिकतेची		•	वस्तूची	
	8)		ायसार, प्रवचनर ग्राने प्रसिध्द आ		नग्रह,	नियमसार व अष्टपाहुड हे ग्रंथ	
			ग्राभ् प्रासंध्य आ प्राभृतत्रयी	QVI.	ब)	आगम	
		क)			ड)	ग्रन्थमयी	

9)	'प्रवचनसार' हा ज्ञान व ज्ञेय यांची म अद्वितीय ग्रंथ आहे.	नीमांसा	करणारा —— शैलीमध्ये लिहलेला	
	अ) दार्शनीक	ब)	वैदर्भी	
	क) पांचाली	ਫ)	स्थापत्य	
10)	मोह—राग—द्वेषाला नाश करण्याचा उ आहे. अ) सम्यकदर्शन क) ज्ञेय तत्व प्रज्ञापन	ब)	चरणानुयोगसूचकचूलिका	
	,		ज्ञानतत्वप्रज्ञापन	
11)	'प्रवचनसार' यावर आचार्य अमृतचंद्रा		गी —— नावाची संस्कृत टीका रचली.	
	अ) 'प्रवचनसरोजभास्कर'	ब)	'तत्वप्रदीपिका'	
	क) तात्पर्यवृत्ती	ਫ)	तत्वार्थसार	
12)	मुक्तीला कारण आहे.			
12)	अ) श्भोपयोग	ਹ)	शुध्दोपयोग	
	क) धनोपयोग	•	जीवनोपयोग	
	,			
13)	दिगंबर परंपरेत द्रव्यानुयोग साहित्या	٠.		
	अ) कुंदकुंद	,	अकलंक	
	क) देवसेन	ਫ)	उमास्वाती	
14)	आचार्य कुंदकुंद यांनी —— या रच आहे.	नेत भ	द्रबाहु यांचा गुरु म्हणून उल्लेख केला	
	अ) भावपाहुड	ब)	दर्शनपाहुड	
	क) शीलपाहुड		बोधपाहुड	
15)	्र शुध्द, शुभ आणि अशुभ हे —— ती	, ਜ ਤਹ	योग आहेत	
13)	अ) जीवाचे		अजीवाचे	
	क) धर्माचे	_{ष)} ड)	अधर्माचे	
	,	,		
16)	आ.कुंदकुंद यांचा काल विद्वानांनी			
	अ) इसवी सन पूर्व सहावे			
	क) इसवी सन पूर्व पहिले शतक	ਫ)	इसवी सन तिसरे शतक	
खार्ल	ोलपैकी प्रश्नांची थोडक्यात उत्तरे लिह	ा. (को	णतेही चार)	16
अ)	कुंदकुंदविरचित 'नियमसार' ग्रंथाची		यात माहिती लिहा.	
ब)	'स्मयसार' ग्रंथाचे स्वरुप यासंबंधी वि	_		
क)	व्हेकरविरचित 'मुलाचार' ग्रंथासंबंधी			
ভ)	केवल्ज्ञानाची महिमा्-ज्ञान अधिकार्			
इ)	शुध्दोपयोग–शुभोपयोग व अशुभोपयो			
ई)	विविध अभ्यासकांच्या मते आचार्य कु	दकुद	याच्या कालनिर्णयासबधी मत सागा.	

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प्र.3	खाली	लपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही दोन)	16
	अ)	'मंगलाचरण' म्हणजे काय ते सांगून 'प्रवचनसार' या ग्रंथामध्ये आलेल्या	
		मंगलाचरणासंबंधी गाथांचा अर्थ सोंगा.	
	ৰ)	इंद्रीय ज्ञान व अतिंद्रीय ज्ञान यातील फरक 'प्रवचनसार' या ग्रंथाच्या आधारे	
		उदाहरण देऊन सांगा.	
	क)	'प्रवचनसार' ग्रंथाची विषय वस्तु थोडक्यात सांगा.	
	ভ)	'प्रवचनसार' मधील दुसरा महाअधिकाराचे संक्षिप्त वर्णन करा.	
प्र.4		लपैकी प्रश्नांची उत्तरे लिहा. (कोणताही एक)	16
	कुंदक्	दाचार्य यांच्या ग्रंथत्रयाची चर्चा करा.	
		किंवा	
	'पाहुर	उ' याचा अर्थ सांगून उपलब्ध पाहुडांची चर्चा थोडक्यात करा.	
प्र.5	आचा	र्य कुंदकुंद यांचा जीवनपरिचय सांगून त्यांच्या साहित्याबद्दल माहिती द्या.	16

Sea No.	t				Set	P
	M.A.		ew) (CBC Ihha Tatva	S) Examination: Oct/Novadnyan	/-2022	
-		e: Friday, 17-02-2023 00 AM To 02:00 PM		Мах	k. Marks:	: 80
सूचन		सर्व प्रश्न अनिवार्य आहेत. उजवीकडील अंक पूर्ण गुण दः	र्शवितात.			
Я.1	दिले 1)	या पर्यायापैकी अचूक व योग्य गृहस्थींसाठी किती शील सांगि		न वाक्य पुन्हा लिहा.		16
		अ) पाच क) सात	ब) ड)	सहा आठ		
	2)	प्रतित्य समुत्पादाचा सिध्दांत वि अ) 10	,			
	- \	क) 12	ड) 	13		
	3)	बुध्द या शब्दाचे पालि भाषेतीत अ) बुध्दं क) बुध्दा	_	न्प कस आहं? बुध्दो बुध्दस्स		
	4)	पारमिता किता सांगितले आहे अ) सात क) नऊ	त? ब) ਫ)	आठ दहा		
	5)	नामरुप पच्चया —— । अ) सळायतन क) आयतन	ब) ਫ)	फरस पंचस्कंद		
	6)	आर्य आष्टांगिक मार्ग हा कशा अ) धर्माचा क) दुःख मुक्तीचा	ब)	?? संघाचा सुखाचा		
	7)	कतमे तितयं अरियसच्चं? अ) दुक्खं क) दुक्ख विरोध	•	दुखसमुदयं दुक्खनिरोध गामिनी परिपदा		
	8)	उपोसथासाठी किती शीलाचे प अ) पाच क) सात	गलन करणे ब) ड)	आवश्यक आहे? सहा आठ		

9)	जाति पि ——।			
-	अ) दुक्खा	ब)	भव	
	क) जय	ਫ)	मरणं	
10)	सर्व संस्कार हे कसे आहेत?			
	अ) सुंदर	ब)	योग्य	
	क) अनित्य	ਫ)	मिय्या	
11)	यो धम्मं परसति सो किं परसति?			
,	अ) दिठ्ढी	ब)	संथं	
	क) बुध्दं		सच्चं	
42)	, , , कुशल चित्ताच्या एकाग्रतेला काय म्ह	,		
12)	अ) ध्यान	ब)	ः समाधि	
	क) विपरसना	^ष) ड)		
,	•	9)	त्रशा	
13)	'अनत्त' म्हणजे काय?	`	6	
	अ) अंत	ৰ) —\	नित्य	
	क) अनात्म	ड)	अनित्य	
14)	संखार पच्चया किं भवति?			
	अ) विञ्ञाण	ब)	नामरूप	
	क) धम्मं	ਫ)	अनिच्यं	
15)	नाम म्हणजे काय?			
•	अ) नाव	ब)	अव्यय	
	क) शरीर	ਫ)	मन	
16)	दुक्ख निरोध गामिनी परिपदा किती	अंगांन	ी यक्त आहे [?]	
,	अ) सात	ब)	आठ	
	क) नऊ	-, ਫ)	दहा	
	,	,		
खार्ल	ोलपैकी प्रश्नांची थोडक्यात उत्तरे लिह	ा. (को	णतेही चार)	16
अ)	तत्वज्ञानाचे प्रमुख कार्य कोणते?	_		
ৰ)্	'सुखो _{बु} ध्दानं उप्पादो' या वाक्याचा	अर्थ न	स्पष्ट करा.	
क) —\	बुध्द संकल्पना स्पष्ट करा.			
ভ) =\	दुक्खं या आर्यसत्याचे स्पष्टीकरण ति	ત્રૄૄૄાં.		
ভ) ছ) ছ)	'सम्मा दिठ्ढी' म्हणजे काय? अरहं चा अर्थ काय होतो?			
২)	અર્દ તા અન તમત ફાલા:			

Я.2

	0 4 0	. 0	\	\sim	1 1 10	\ \ \
प्र.3	खालीलपैकी	प्रश्नाचा	उत्तर	ालहा.	(काणतहा	दान)
•		* . *	•		(/

16

- 'बुध्द' आणि 'धम्म' यांतील सहसंबंध स्पष्ट करा. अ)
- चार आर्यसत्यांचे स्पष्टीकरण लिहा.
- बुध्दानुसतीचे स्पष्टीकरण लिहा. कार्यकारण सिध्दांताचे स्पष्टीकरण लिहा.

प्र.4 खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणताही एक)

16

बुध्दत्व प्राप्तीचा मार्ग सपष्ट करा. सिध्दार्थ गौतमाला बुध्दत्वाची प्राप्ती कशी व केव्हा झाली यावर चर्चा करा.

किंवा

आर्य अष्टांगिक मार्गाचे सविस्तर वर्णन करा.

प्र.5 'दु:ख मुक्तिचा मार्ग' या अर्थाने बुध्द तत्वज्ञान विषयी सविस्तर चर्चा करा.

16

Seat No.			Set	Р
M.A.	(Sanskrit) (Seme	ster - III) (New) (CE Sanskrit Bhash	BCS) Examination: Oct/Nov-20	22
•	Date: Friday, 17-02-2 11:00 AM To 02:00 P	023	Max. Marks	: 80
सूचना	: 1) सर्व प्रश्न अनिवार्य 2) उजवीकडील अंक 3) सर्व प्रश्नांची उत्तरे	_	हावीत.	
	ोग्यं पर्यायं चित्वा वाक्य ोग्य पर्याय निवडून वाव) कारकाणि —— ।			16
•,	, अ) पञ्च क) अष्ट	ब) ड)	त्रीणि षट्	
2) कर्त्याची —— वि अ) चतुर्थी क) प्रथमा	ब)	पंचमी षष्ठी	
3) कर्माची —— विश अ) द्वितीया क) पंचमी		चतुर्थी षष्ठी	
4) 'याचकाय वस्त्रं द अ) कर्ता क) सम्प्रदान	दाति' हे वाक्य —— का ब) ड)		
5) अपादान कारकार्च अ) षष्ठी क) संबोधन	,	सप्तमी पंचमी	
6) 'स्थाल्यां ओदनं प अ) कर्ता क) अधिकरण	चति' हे वाक्य —— का ब) ड)	अपादन	
7) ''धावतो अ श्वा त् प अ) संबंध क) अधिकरण	तति" हे —— कारकाचे ब) ड)	अपादान	
8	,	, गाऱ्या वाक्यप्रयोगाला —	— प्रयोग म्हणतात. भावे	

	9)	'रामेण फलं खाद्यते' हे —— प्रयोगाचे वाक्य आहे. अ) शब्दसमूह ब) कर्तरी क) कर्मणि ड) सर्व	
	10)	'रामः पुस्तकं पठति' या वाक्यात —— प्रयोग आहे. अ) कर्तरी ब) वाक्य क) भावे ड) कोणतेही नाही	
	11)	'गणेशाय मोदकं रोचते' यांत —— हे कारक आहे. अ) सम्प्रदान ब) करण क) अपादान ड) सर्व	
	12)	'रामः पठति' या वाक्यात 'राम' हा —— आहे. अ) कर्ता ब) कर्म क) करण ड) क्रियापद	
	13)	'साधनासाठी' —— हे कारक वापरतात. अ) कर्ता ब) करण क) संप्रदान ड) संबंध	
	14)	पूर्वपद आणि उत्तरपद गौण —— या समासामध्ये असतात. अ) तत्पुरुष ब) बहुव्रीही समास क) अव्ययीभाव समास ड) केवल	
	15)	धातूंचे एकूण —— गण आहेत. अ) 5 ब) 20 क) 10 ड) 22	
	16)	स्वतः विषयी बोलतांना वाक्यामध्ये क्रियापदी धातूचे —— पुरुष उपयोजिले जाते. अ) उत्तम ब) प्रथम क) द्वितीय ड) चतुर्थ	
Я.2	टिपा 1) 2) 3) 4) 5)	ाणीं लिखत। केवलं 4 I लिहा. फक्त 4 संस्कृतभाषा कर्ता कारक कर्म कारक करण कारक संप्रदान कारक	16
Я.3	विस्त 1) 2) 3)	तरेण स्पष्टीकुरुत। केवलं 2 ताराने स्पष्टीकरण करा. फक्त 2 अव्ययीभाव समास बहुव्रीही समास स्वपरिचयः एका लघुकथा	16

		SLR-HD-85
प्र.4	कस्यचिद् एकस्य समाधानं देयम्।	16

1. कारकव्यवस्था

2. समासव्यवस्था

प्र.5 संस्कृतभाषायाः मानावजीवने महत्वं लिखत।

Seat No. Set P

M.A. (Urdu) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 Hindustan Mein Cinema

Day & Date: Friday, 17-02-2023 Max. Marks: 80

Time: 11:00 AM To 02:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks. سوال نمبر. 1. صحیح متبادل کا انتخاب کرے جوابی پریے میں کھیے۔ 16 1) کون جرمنی سے فلم تکنیک سیکھ کر آئے تھے؟ B) داداصاحب بھالکے A) ما بوراو پینیٹر C) ایل-وی-پرشاد D)نوشاد 2) مودی کیمرے بنانے میں کون کامیاب ہوئے؟ A)واڈ کیر B)ایل۔وی۔ پرشاد C)وی شانتارام D) ما بوراو پینٹر 3) ہندوستان کی پہلی متکلم فلم کون سی تھی۔ D)انار کلی A) جہاں آرا B)عالم آرا (C) 4) بی۔ ایجے۔ واڈیا کی فلم "نوجوان" کبریلیز ہوئی؟ £1937(B £1938(A 1930(D 1948(C 5) دلیپ کمار اور نادرہ کی فلم" آن "شیکبیئر کے کس مشور ڈرامے پر مبنی تھی۔ B) مک بیتے A) ہیملٹ C) ٹیمنگ آف دانٹر و D)رومیوانڈ جولٹ 6)مشهور اداكاره مدهو بالإكااصل نام كياتها؟ B)متازجهان بیگم A)ڑیا D)نورجهال C) جہاں آراء

	7) ہندوستان کی پہلی نگلین فلم کون سی تھی؟
B)انار کلی	A) جھانسی کی رانی
D)امر اکبر انتقونی	C) آواره
	8) انگریزی زبان میں بننے والی پہلی فلم کون سی تھی؟
B)عالم آراء	A)نورجہاں
D)راجاہریش چندر	C)شیریں فرہاد
	9) کس اداکار کو چو دہ بار فلم فیئر ابوارڈ سے نوازا گیا؟
B)امیتا بھ بچک	A)دلیپ کمار
D) كمل ہاس	C)عامیر خان
	10) پہلی خاموش فلم "راجہ ہریش چندر "کب بنی؟
£1913(B	£1915 (A
,1920(D	£1914(C
?@?	11)مشهور فلم اداكاره "زينت امان" كو كونساخطاب ملا
تھا؟ B)میس انڈیا	11)مشهور فلم اداكاره "زينت امان" كو كونساخطاب ملا A)مس يونيورس
B) میں انڈیا D)ان میں سے کوئی نہیں	A)مس يونيورس
B) میں انڈیا D)ان میں سے کوئی نہیں	A)مس یو نیورس C)مس ور لڈ
B) میں انڈیا D) ان میں سے کوئی نہیں نے ایک سومریتبہ لکھا؟	A) مس یونیورس C) مس ورلڈ 12) کس فلم کا گیت "پیار کای تو ڈرنا کیا" شکیل بدایونی
B) میس انڈیا D) ان میں سے کوئی نہیں نے ایک سومر تنبہ لکھا؟ B) راجا ہریش چندر D) زنجیر	A) مس یو نیورس C) مس ورلڈ 12) کس فلم کا گیت "پیار کای تو ڈرنا کیا" شکیل بدایونی A)انار کلی
B) میس انڈیا D) ان میں سے کوئی نہیں نے ایک سومر تنبہ لکھا؟ B) راجا ہریش چندر D) زنجیر	A) مس یونیورس C) مس ورلڈ 12) کس فلم کا گیت "بیار کای توڈر ناکیا" شکیل بدایونی A) انارکلی C) ہم آپ کے ہیں کون
B) میس انڈیا D) ان میں سے کوئی نہیں نے ایک سومر تبہ لکھا؟ B)راجاہریش چندر D)زنجیر	A) مس یو نیورس C) مس ور لڈ 12) کس فلم کا گیت " بیار کای توڈر ناکیا" شکیل بد ایونی A) انارکلی C) ہم آپ کے ہیں کون 13) مجلگوتی چرن ور مانے کس کو فلمی نام " دلیپ کمار " ہ
B) میس انڈیا D) ان میں سے کوئی نہیں نے ایک سومر تبہ لکھا؟ B) راجا ہریش چندر D) زنجیر یا تھا؟ B) ابر اہیم خان D) سلمان خان	A) مس یو نیورس C) مس ور لڈ 12) کس فلم کا گیت " پیار کای تو ڈرنا کیا" شکیل بد ایونی A) انار کلی C) ہم آپ کے ہیں کون (C) مجلگوتی چرن ورمانے کس کو فلمی نام " دلیپ کمار" (A) یوسف خان
B) میس انڈیا D) ان میں سے کوئی نہیں نے ایک سومر تبہ لکھا؟ B) راجا ہریش چندر D) زنجیر یا تھا؟ B) ابر اہیم خان D) سلمان خان	A) مس یو نیورس C) مس ور لڈ 12) کس فلم کا گیت "پیار کای تو ڈرنا کیا" شکیل بد ایونی A) انارکلی C) ہم آپ کے ہیں کون (C) مجگوتی چرن ورمانے کس کو فلمی نام " دلیپ کمار" (A) یوسف خان (A) یوسف خان (C) سلیم خان

	?	15) ساحر لد هیانوی کااصل نام کیاتھا'	
	B)عبد الواحد	A)عبدالمجيد	
	D)عبدالسمد	C)عبدالحي	
	۔ انسان کی اولاد ہے انسان بنے گا۔ بیہ کس کا گیت ہے؟	16)" توہندو بنے گانہ مسلمان بنے گا۔	
	B)گلزار	A) مجر وح سلطانپوری	
	D)ساحرآبد هیانوی	C)جاويد اختر	
16	ف لکھتے:(کوئی چار)	مندرجه ذمل سوالات کے مخضر جوابات	سوال نمبر.2.
	کیار ہابیان کی جئے۔	1)ار دوادب سے ہندی فلموں کار شتہ	
	و تجرير يجير	2)ساحرلد ھيانوي کے فلمی نغمے پر نوٹ	
	ِپراظهار خیال کیج۔	3) كيفى اعظمى اور ان كا فلمى وسياسى سفر	
	مر و کار کس طرح رہاہے بیان شیجئے۔	4)شکیل بدایونی کے نغموں میں ساجی س	
	مختصراً نوٹ لکھیئے۔	5) دا داصاحب پھا کئے کے فلمی سفر پر مح	
	طرح کی گئی تحریر شیجئے۔	6) فلموں میں مسلم ساج کی عکاسی کس	
16	پر کیجئے۔(کوئی دو)	مندرجہ ذیل سوالات کے جوابات تحریر	سوال نمبر. 3.
	نت ميجيحيا	1) شکیل بدایونی کافلمی سفر کیسار ہاوضا<	
	یں تحریر کیجئے۔	2)سنیماکے ابتدائی مراحل کون ہے بب	
	ئى نىت سے سفر تحریر <u>ک</u> یجئے۔	3) گلزار صاحب کا فلمی اور نغمه نگار کی <	
	مختصر نوٹ لکھئے۔	4) متكلم فلموں كا آغاز كس طرح ہوا۔	
16		مفصل جواب کھئیے:-(کوئی ایک)	سوال نمبر.4.
	• • • •	1) ہندوستان میں سنیما کا آغاز وار تقاء تف	
	<u> و شنی ڈا کیئے۔</u>	2) جاں نثار اختر کے حالات زندگی پر ر	
16	پنے خیالات کا اظہار کیجئے۔	ار دوزبان وادب اور سنیماکے متعلق ا۔	سوال نمبر.5.

Seat			
No. Set P		Set	Р

M.A. (Urdu) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 Aligar Tahrik

Day & Date: Friday, 17-02-2023 Max. Marks: 80

Time: 11:00 AM To 02:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks. سوال نمبر. 1. صحیح متبادل کا انتخاب کر کے جوابی پر ہے میں لکھیے۔ 16 1) تبئین الکلام "ار دوعبرانی اور ۔۔۔۔۔۔ان تینوں زبانوں میں چیپی ہے۔ B)ہندی A) فارسی D)م انتفى C)انگریزی 2) اردو کامعلم اخلاق۔۔۔۔۔۔ کو کہاجا تاہے۔ B)حالی A) سرسید C)شلی D) آزاد 3) تحریک کے۔۔۔۔ معنی حرکت دیناہوتے ہیں۔ D)لفظی C)اصطلاحی 4) تحریک احمد خان چاہتے تھے کہ۔۔۔۔۔۔ میں سیاسی شعور پید اہو۔ B)مسلمانون A) عيسائيون D)انگریزل C) ہندوں 5) اردومیں۔۔۔۔۔۔ کا آغاز مولاناحالی نے کیاہے۔ B) غزل A) داستان D)سوانح نگاری C)م شهر 6) سرسیدانگریزی کے انشاپر داز۔۔۔۔۔۔اور ایڈیسن کے دور سالے اسپیکٹر ملیٹلر دیکھے۔ A) بیکن B) کٹرس C)شیکسیئر D)اسٹیل

۔ دور کے تصنیف ہے۔	7)" آثار الصناديد "سرسيد كے
B)دو سرے	(A) پہلے
D)چِوشے	C) تیرے
-كار	8) شبلی نعمانی کی سیر ت النبی نیملر
B)ابوالاعلىٰ ندوى	A) سرسید
D)شبلی خو د	C)سید سلیمان ندوی
	9)۔۔۔۔۔ سرسید کے رفقائے کار میں شامل ہیں۔
B) ظفر على خان	A)غالب
D) چراغ علی	C)مومن
	10) شبلی کی "الکلام"کاموضع کیاہے؟
B)ار دوا دب	A) ریاضی
D) فارسی ادب	C)نه بب
فین اعظم گڑھ کا قیام کیا۔	11) شبلی نے۔۔۔۔۔کے لیے درالمصن
B) صحافیوں	A)شاعروں
D)نوجوان اديبول	C)سائنس دانوں
	12)"مسدس حالی"کس نے لکھی۔
B) محمد حسین آزاد	A)مولاناحالي
D) نجاز	C)اقبال
سواخ ہے۔	13)۔۔۔۔۔۔۔۔ محسن قوم سرسیداحمد خان کی
B)حیات جاوید	A) حیات سرسید
D)حیات سعدی	C) يادِ گار سرسيد
ہاپ کر اس کی اشاعت کی۔ م	14) خطبات احمدیه کو سرسید نے۔۔۔۔۔ میں ج
B) فرانس	A)لندن
D) پاکستان	C) هندوستان

) كتاب" بائبل" سے ہے؟	15)۔۔۔۔۔۔۔کا تعلق عیسائیوں کی مذہبی	
	B) آثار الصناد	A) تبئين الكلام	
	D) حیات سعد ی	C) تاریخ سر کثی بجنور	
) گڑھ سے ہوئی۔	16)اردومیں۔۔۔۔۔۔کی ابتداء علی	
	B)ڈراہا نگاری	A) افسانه نگاری	
	D)مر ثیه نگاری	C) ناول نگاری	
16		مخضر جواب لکھئے:(کوئی چار)	سوال نمبر.2.
	ں بتائی ہیں؟	1)مولاناحالی نے شاعری کے متعلق کون سی شرطیر	
	تھی ہیں ان کے بتائیے۔	2)مولانا شبلی نعمانی نے جن معتبر اشخاص کی سوا ^{نے لک}	
		 اسر سید احمد خان کے چند انشائیوں کے نام لکھئے۔ 	
	ِروشَیٰ ڈالیے	4)سیر سیدکے دور میں ناول نگاری کے آغاز پر مختصر	
		5)مولاناحالی کی سوانح نگاری کامخضر جائزہ لیجئے۔	
		6)مقدمه شعر وشاعری ہر مخضر نوٹ لکھئے۔	
16		درج ذیل سوالات کے جوابات کھیئے۔(کوئی دو)	سوال نمبر.3.
		1) شبلی نعمانی کی شاعری کااجمالی جائزہ لیجئے۔ 1	
	-	2)مولاناحالی کی تنقیدی رجحانات کا اجمالی جائزہ کیجئے	
	- 25 20	 اسر سید کے تیسر بے دور کے تصنیفی رجحانات کا محا 	
		4) سرسید کے رفقائے کار کا اجمالی جائزہ لیجئے۔ ۔	
16		مفصل جواب لکھئیے:-(کوئی ایک)	سوال نمبر.4.
		1) علی گڑھ تحریک کا پس منظر بیان کیجئے۔	
	مدمات كالمفصل جائزه ليجئز	2) علی گڑھ تحریک کے حوالے سے سرسید کی ادبی خ	
16		على گڑھ تحريك كا آغاز دار تقاء پر مفصل نوٹ لکھيے۔	سوال نمبر.5.

						5	SLR-HD-	94
Seat No.							Set	P
M.A.	(Kanna	da) (Seme	ester - III) (N Kanna	ew) (CB	-	nation: (Oct/Nov-20	22
		day, 17-02-2 l To 02:00 Pl	023				Max. Marks	: 80
Instru			ns are compuls the right indica	-	ks.			
_	1) 'ಭಾಕ ಎಂದ 1)	ಷೆಯೆಂಬ ಬೆಳಕ ನವರು ಬಾಮಹ	್ದು ಉತ್ತರ ಬರೆಯಿ ು ಜೀವನದಲ್ಲಿ ಬೇ	ಳಗದಿದ್ದರೆ ಲೆ 2)	ಭರತ	ಂದ ತುಂಬಿ	ಹೋಗುತ್ತಿತ್ತು'	16
2	2) 'ಕನ್ನ! 1)	ದಂಡಿ ಡ ಭಾಷಾ ಸ್ವರು ರಾಜೇಶ್ವರಿ ಮ ಎಸ್. ಸವದತಿ	w 5	- 2)	ವಿಶ್ವನಾಥ ಜೆ.ಎಸ್.ಕುಳ್ಳಿ ಜಿ.ಎಸ್.ಎಸ್.			
3	3) ಭಾಷ 1)	- : ಮಾನವನಿಗೆ : ಆಯುಧ ವಸ್ತು	5	2)	ವರದಾನ ವಿಷಯ			
2	4) 'ಕನ್ನ 1)	_	ತ್ರೆ' ಕೃತಿಯ ಕರ್ತೃ ದಮೂರ್ತಿ	2)	ಕೆ. ಕುಶಾಲಪ್ಪಗ ಸಂಗಮೇಶ ಸ			
	1)	ಫ್. ಹಾಕೆಟ್ ಇ ಭಾಷಾ ವಿಜ್ಞಾ ಲೇಖಕ	ω	-	ಸಂಶೋಧಕ ಕವಿ			
(1)	ನವ ಭಾಷೆ ಸಂ ಸ್ಟುರ್ಟೆವಾಂಟ ಟ್ರೇಗರ್	ಕೇತಗಳ ವ್ಯವಸ್ಥೆ' ್	2)	ಸಿ.ಎಲ್.ಬಾಬ ಹೊಮರ್	೯ರ್		
7	1)	ತೃಭಾಷೆ ಪ್ರತಿ ವ್ಯ ಸಹಜ ಭಾಷೆ ವಿದೇಶಿಭಾಷೆ	್ಯಕ್ತಿಯ	2) 4)	ಪರಭಾಷೆ ರಾಷ್ಟ್ರಭಾಷೆ			
8		ೋಚನೆಯ ಆಭಿ ಸಮಾಜ	ವ್ಯಕ್ತಿಯೇ	2)	್ತ ವಿಜ್ಞಾನ ಭಾತೆ			

2) ಅಕ್ಷರ4) ವಿಚಾರಗಳು

ಭಾಷೆಯಲ್ಲಿ _____ ಇರುತ್ತದೆ.
1) ಧ್ವನಿ
3) ಪದಗಳು

9)

	10)	ಇಸಿಲ	ು ಇದು ಪ್ರಾಚೀನ	ಪದ.			
			ಲ್ಯಾಟಿನ್		2)	ದಿಂಹೆ	
		3)	ಕನ್ನಡ		4)	ಪಾಲಿ	
	11)) 'ಭಾಷೆ' ಈ ಪದ ಈ ಭಾಷೆಯಿಂದ ಬಂದದ್ದು					
	•		ಸಂಸ್ಕೃತ	ω	2)	ಕನ್ನಡ	
			ಜರ್ಮನ್		4)	ಪ್ರೇಂಚ್	
	12)	ಭಾಷೆ	ಯಲ್ಲಿ ಸಂಕೇತಗಳು ಒಂದರ			ಮತ್ತೊಂದು ಬರುತ್ತವೆ.	
			ವಿರುದ್ಧ			ಬೇರೆಬೇರೆ <u> </u>	
		3)	ಪಕ್ಕದಲ್ಲಿ		4)	ಯಾವುದೂ ಅಲ್ಲ	
	13)	'ಕನ್ನರ	ತ ಕೈಪಿಡಿ' ಇದು ಒಂದು				
		•	ಭಾಷಾ ಕೈಪಿಡಿ		2)	ವಿಮರ್ಶಾಕೃತಿ	
			ಅನುಭಾವಕೃತಿ			ಅಭಿವ್ಯಕ್ತಿ	
	14	ಕನ್ನಡಿ	ಗರು 'ಕಣ್ ನಿರ್' ಜನಾಂಗದವರು	ಎಂದ	ವರು	•	
		~	ಬ್ಲಾಕ್ & ಟ್ರೇಗರ್			ಸ್ಪರ್ಟವಾಂಟ್	
			ಡಾ.ಹೆರಾಸ್			ಹಾಕೆಟ್	
	15	ಕನ.ಡ	ತ ಈ ಭಾಷಾವರ್ಗಕ್ಕೆ ಸೇರಿದೆ .				
			ದೇವನಾಗರಿ		2)	ಆರ್ಯ	
		•	ಯಾವುದೂಅಲ್ಲ			ದ್ರಾವಿಡ	
	16		ನಿತ್ಯ ಆಗಿದೆ.				
			ಪರಿವರ್ತನೆಶೀಲ		2)	ತಟಸ್ಥ	
		•	ಬದಲಾವಣೆ			ಯಾವುದೂ ಅಲ್ಲ	
 _	9 ـ دــــ و ء		2. 0. (12 1.42)			.,	4.0
ಪ್ರ.2	•••		ಯಿರಿ (ಬೇಕಾದ 4ಕ್ಕೆ) ಕ್ರಾಮಾನ್				16
	•		್. ಹಾಕೆಟ್ ಸ್ವರೂಪ				
	3)		~				
		•	ಎಜ್ಜಾನಿಗಳು				
			ವ್ಯವಸ್ಥೆ				
			್ಯ ಗಮೇಶ ಸವದತ್ತಿಮಠ				
ے م	رو د	۔ بہد					16
ಪ್ರ.3		ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ (ಬೇಕಾದ 2ಕ್ಕೆ) 1) 'ನಾನೆ' ಎಂದಕೊನ್ನು ಉದ್ಯಕ್ತನ ಮನೆಯ ಬಸೆಯಿತಿ					
) 'ಭಾಷೆ' ಎಂದರೇನು? ಅದರ ಸ್ವರೂಪವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ. 2) ಭಾಷೆ ಒಂದು ವ್ಯವಸ್ಥೆ ಸ್ಷಷ್ಟಪಡಿಸಿರಿ.					
) ಭಾಷೆಯ ವೈಶಿಷ್ಟ್ಯಗಳಾವವು? ಅವುಗಳನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.					
			ವಿಜ್ಞಾನಿಗಳು ಯಾರು ಯಾರು? ಅ				
			5		•		
ಪ್ರ.4	ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಸವಿಸ್ತಾರ ಉತ್ತರ ಬರೆಯಿರಿ. (ಬೇಕಾದ 1ಕ್ಕೆ)					16	
			ಯನ್ನು ಕುರಿತು ವಿವಧ ಭಾಷಾವಿದ್ವಾ				
	2)	ಕನ್ನಡ	ಭಾಷೆಯ ಪ್ರಬೇಧಗಳನ್ನು ಕುರಿತು ತಿ	<u> ಸ್ತಾ</u> ರಾ	ಎಂಗಿ	wowo.	
ಪ್ರ.5	ಈ ಕೆಳ	ಕಗಿನ ಕ	ಪ್ರಶ್ನೆಗಳಿಗೆ ಸೋದಾಹರಣದಿಂದ ಉ	ತ್ತರಿಸಿರಿ	•		16
			_ , ಷೆಯ ವೈಶಿಷ್ಟ್ಯಗಳನ್ನು ಕುರಿತು ಸವಿಸ	_		ාර්ಯಿರಿ.	

Seat No.	•	Set P			
M.A. (Economics) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 (CAMPUS)					
		Human Development			
,		Friday, 17-02-2023 Max. Marks: 70 AM To 02:00 PM			
Instr	uction	s: 1) All questions are compulsory. 2) Figures to the right indicate full marks.			
Q.1	Choo 1)	se the correct alternatives from the options. Who secured the lowest rank in The Human Development Report 2018? a) Afghanistan b) Congo c) Niger d) Kenya			
	2)	What is the rank of India in the Human Development Index 2018? a) 142 nd b) 136 th c) 140 th d) 130 th			
	3)	When was the Gender Inequality Index (GII) introduced? a) 2010 b) 2011 c) 1999 d) 2005			
	4)	Which of the following index is not released by the UNDP? a) Human Development Index b) Multidimensional Poverty Index c) Gender Inequality Index d) Environmental Quality Index			
	5)	Which of the following is not one of the factors related to Human Development Index?			
		a) Longevityb) Literacyc) Descent standard of livingd) Increase in Govt. Jobs			
	6)	Who was the originator of the Human Development Report? a) Amartya Sen b) Jan Tinberger c) Mahboob-ul-Haq d) Dr. Manmohan Singh			
	7)	The state having the highest literacy rate in India a) Kerala b) Tamil Nadu c) Bihar d) Rajasthan			
	8)	Which scheme was started in 1993 to create self-employment opportunities for educated unemployed youth in rural areas and small towns?			
		 a) Prime Minister Rozgar Yojana b) National Rural Employment Guarantee Act. c) Rural Employment Generation Programme d) Swarnajayanti Gram Swarozgar Yojana 			
	9)	For how many days NREGA provides employment? a) 70 b) 80 c) 90 d) 100			

10)	Who is considered as poor? a) Landlords c) A rich farmer	b) d)	Landless labourer Businessman			
11)	Women and children under the age of five are food insecure population					
	due to: a) Malnutrition c) Fats	b) d)	Healthy diet at None of the above			
12)	By which year governments are aiming to meet the Millennium Development Goals including having the rate of global poverty? a) 2011 b) 2015 c) 2045 d) 2035					
13)	Which of the following is an indicato a) Income level c) Employment level	r of p b) d)	overty in India? Illiteracy level All of these			
14)	Which one of the following Economi a) Scheduled Caste c) Rural Agricultural Household	b)				
15)	In which year was N R E G A enacte a) 2005 c) 1999	ed? b) d)	2000 1993			
16)	HDI means a) Human Development Industry b) Human Development Index c) Human Development Investigat d) None of these	ion				
 Answer the following questions. (Any Four) a) What is the meaning of Human capital? b) What is the significance of human resource? c) What is the meaning of economic security? d) What is the meaning of human development? e) What is the meaning of human poverty index? f) What are the criteria for selecting capabilities? 						
 Answer the following questions. (Any Two) a) What are the reasons for decline food grains? b) Explains the physical quality of life index c) What are the components of quality of life? d) What is the social determinants of Human capital? 				16		
Answer the following questions. (Any One) Explain the Gender Empowerment Measure. OR						
Elaborate Marshall Utility of a Commodity approach.						
Discuss the social determinants of human development in detail.						

Q.2

Q.3

Q.4

Q.5

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	M		er - III) (t/Nov-20	New) (CBCS) Examination:		
		Internationa		· 		
		te: Friday, 17-02-2023 00 AM To 02:00 PM		Max. Marks:	: 80	
सूचन	,) सर्व प्रश्न अनिवार्य आहेत. उजवीकडील अंक पूर्ण गुण दर्शवि	वेतात.			
Я.1	खाली 1)	वालील दिलेले योग्य पर्याय निवडून गाळलेल्या जागा भरा.) —— च्या मते स्थानिक व्यापार आणि आंतरराष्ट्रीय व्यापार या मध्ये फरक				
		नसतो. अ) अँडम स्मिथ क) रिकार्डी	,	ओव्हीन वरील पैकी नाही		
	2)	किंवा उत्पादन करण्याची क्षमता अ) तुलनात्मक लाभ	म्हणजे — ब)	निव्वळ लाभ		
	a)	क) संबंधित घटक एंडॉवमेंट निव्वळ लाभाचा सिध्दांत गृहीत ध	,	अधिक सधी खर्च		
	3)	अ) तांत्रिक बदल नाही	ब)	वाहतूक खर्च नाही वरील सर्व		
	4)	हेक्शर—ओहलिन मॉडेल असे गृहि एकसारखे आहे. अ) सकल देशांतर्गत उत्पादन क) घटक देणगी		तंत्रज्ञान		
	5)	इतर फर्म किंवा व्यक्तिंपेक्षा कमी करण्याची फर्म किंवा व्यक्तिची क्ष अ) पूर्ण फायदा क) तुलनात्मक लाभ	नमता. ब)	ति वस्तू आणि सेवांचे उत्पादन संधीची किंमत वरीलपैकी नाही		
	6)	निश्चित विनिमय दर प्रणाली अंत चलनाच्या मूल्यामध्ये अधिकृत बन् अ) अवमूल्यन		- हे इतर चलनांच्या तुलनेत देशाच्या घसारा आणि प्रशंसा		

क) पुनर्मूल्यांकन

- ड) अ) आणि क) दोन्ही
- अवमूल्यनाचा मूख्य परिणाम म्हणजे तो ——. 7)
 - अ) देशांतर्गत चलन इतर चलनांच्या तुलनेत स्वस्त करते.
 - ब) इतर चलनांच्या तुलनेत देशांतर्गत चलन अधिक महाग करते.
 - क) इतर चलनांच्या तुलनेत परकीय चलन स्वस्त करते.
 - ड) सापेक्ष मूल्य अपरिवर्तित ठेवते.

8)	रेकार्डोंचा तुलनात्मक लाभाचा नियम —— यावर आधारित आहे. अ) मूल्याचा श्रम सिद्धांत ब) संधीची किंमत क) घटत्या परताव्याचा कायदा ड) वरील सर्व
9)	भारतात अवलंबलेली विनिमय दर प्रणाली —— आहे. अ) निश्चित विनिमय दर प्रणाली ब) लवचिक विनिमय दर प्रणाली क) व्यवस्थापित स्थिर प्रणाली ड) वरीलपैकी नाही
10)	परकीय उत्पन्नात होणारी वाढ साधारणपणे पुढील गोष्टींना कारणीभूत ठरतेः अ) निर्यात वाढली, देशांतर्गत उत्पादन वाढले. ब) निर्यात घटली, देशांतर्गत उत्पादन वाढले. क) निर्यात घटली, देशांतर्गत उत्पादन घटले. ड) निर्यात वाढली, देशांतर्गत उत्पादन घटले.
11)	चलनाचे अवमूल्यन तेव्हा होते जेव्हा : अ) चलनाचे मूल्य घसरते ब) चलनाचे मूल्य वाढते क) महागाई कमी होते ड) पेमेंट शिल्लक सुधारते
12)	जर मध्यवर्ती बँकेने मालमत्ता खरेदी केली तर त्याचा परिणाम —— होईल. अ) पेशाच्या पुरवटयात वाढ ब) मध्यवर्ती बँकेच्या निव्वळ संपत्तीत वाढ क) पेशाच्या पुरवटयात घट ड) मध्यवर्ती बँकेच्या निव्वळ संपत्तीत घट
13)	खालीलपैकी कोणते ''युरोकरन्सी'' व्यापाराचे उदाहरण आहे? अ) युरोपमधील युरोचा व्यापार ब) कुठेही युरोसाठी डॉलरचा व्यापार क) युरोपमधील डॉलरचा व्यापार ड) ESCB द्वारे युरो मार्केटमध्ये हस्तक्षेप
14)	सुवण मानक म्हणजे ——. अ) देशाचे चलन सोन्याचे आहे ब) कागदी चलन वापरले जात नाही क) देशाचे चलन मुक्तपणे सोन्यात बदलता येते ड) अ) आणि क) वरील
15)	आंतरराष्ट्रीय अवपुंजनात समावेश असू शकतो. अ) देशांतर्गत ग्राहकांकडून आकारल्या जाणाऱ्या किंमतीपेक्षा कमी किमतीत परदेशी लोकांना वस्तु विकणे ब) उत्पादन खर्चापेक्षा कमी किमतीत परदेशी लोकांना वस्तू विकणे क) आयात केलेल्या, टाकलेल्या मालावर अँटीडंपिंग शुल्क आकारले जात आहे ड) वरील सर्व
16)	दोन देशांमधील व्यापाराला —— मुळे प्राोत्साहन मिळेल. अ) भिन्न कर प्रणाली ब) फ्रांटियर चेक क) राष्ट्रीय चलने ड) कमी केलेले दर

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प्र.2	खालीलपैकी प्रश्नांची थोडक्यात उत्तरे लिहा. (कोणतेही चार)	16
	अ) देयक शिल्लक स्पष्ट करा.	
	ब) व्यापारातून लाभाचे कोणतेही चार निर्धारक घटक द्या.	
	क) व्यापाराच्या अटी परिभाषित करा.	
	ड) आंतर—उद्योग व्यापार म्हणजे काय?	
	इ) जागतिकीकरणाची व्याख्या करा. ई) संधीची किंमत स्पष्ट करा.	
	ई) संधीची किंमत स्पष्ट करा.	
Я.3	टिपा लिहा. (कोणत्याही दोन)	16
	अ) व्यापार वाढीचा परिणाम	
	ब) आंतरराष्ट्रीय व्यापाराचा परिपूर्ण फायदा सिध्दांत	
	कं) आंतरराष्ट्रीय व्यापारातून नफा	
	ड) व्यापाराने अपूर्णपणे स्पर्धात्मक बाजारपेठ बनवली आहे	
Я.4	खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही एक)	16
	व्यापाराचे विविध लाभ निर्धारित करणारे विविध घटक स्पष्ट करा.	
	किंवा	
	''व्यापार हे आर्थिक विकासाचे इंजिन म्हणून'' स्पष्ट करा.	
प्र.5	आंतरराष्ट्रीय व्यापाराच्या सनातनवादी सिध्दांतावरील टीका स्पष्ट करा.	16

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M.A. (Economics) (Semester - III) (New) (CBCS) Examination:

	1411	Oct/Nov-		
		International Trad		
_		e: Friday, 17-02-2023 O AM To 02:00 PM		Max. Marks: 80
Instr	uction	ns: 1) All questions are compulsory. 2) Figures to the right indicate full	mark	S.
Q.1	Choo 1)	According to there is no different and international trade. a) Adam Smith c) Ricardo		
	2)	The ability to serve or produce bette of resources is called a) A comparative advantage c) Relative factor endowment	b)	-
	3)	Absolute advantage theory assumesa) No technological changec) Labour theory of value	b)	No transportation cost All the above
	4)	The Heckscher-Ohlin model assume trading countries. a) Gross domestic product c) Factor endowments	b)	
	5)	The ability of a firm or individual to p opportunity cost than other firms or i a) Absolute advantage c) Comparative advantage	ndivid b)	luals. Opportunity cost
	6)	Under a fixed exchange rate system value of a country's currency relative a) Devaluation c) Revaluation		
	7)	A key effect of devaluation is that it a) makes the domestic currency change b) makes the domestic currency decomposition of the domestic currency change do leaves the relative value unchange of the domestic currency change do leaves the relative value unchange of the domestic currency change do leaves the relative value unchange do leaves the domestic currency do leaves the relative value unchange do leaves do	earer aper i	relative to other currencies.
	8)	Recardo's Law of Comparitive advar a) Labour theory of value c) Law of diminishing returns	ntage b) d)	is based on Opportunity cost All the above
	9)	The exchange rate system that is fol a) Fixed exchange rate system c) Managed float system	llowed b) d)	d in India is Flexible exchange rate system None of the above

10)	An increase in foreign income generally leads to: a) Increased exports, increased domestic output b) Decreased exports, increased domestic output c) Decreased exports, decreased domestic output d) Increased exports, decreased domestic output	
11)	 A depreciation of a currency occurs when: a) The value of the currency falls b) The value of the currency increases c) Inflation falls d) The balance of payments improves 	
12)	If the central bank purchases assets, it will result in a) An increase in the money supply. b) An increase in the central bank's net worth. c) A decline in the money supply. d) A decline in the central bank's net worth	
13)	 Which of the following is an example of "Eurocurrency" trade? a) Trade of euros in Europe b) Trade of dollars for euros anywhere c) Trade of dollars in Europe d) Intervention by the ESCB in the euro market 	
14)	Gold standard means a) Currency of the country is made of gold b) Paper currency is not used c) Currency of the country is freely convertible into gold d) (a) & (c) of above	
15)	 International dumping may involve a) selling goods to foreigners at a price below that charged domestic consumers b) selling goods to foreigners at a price below the cost of production c) antidumping duties being levied on the imported, dumped goods d) all of the above 	
16)	Trade between the two countries will be boosted by a) Different tax system b) Frontier checks c) National currencies d) Reduced tariffs	
Ans a) b) c) d) e) f)	Explain the balance of payment. Give any four determining factors of gain from trade. Define terms of trade. What is intra-industry trade? Define globalization. Explain the opportunity cost.	16
Write a) b) c) d)	te short notes. (Any Two) Effects of growth on trade. Absolute Advantage theory of international trade. Gains from international trade. Trade made imperfectly competitive market.	16

Q.2

Q.3

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Q.4	Answer the following questions. (Any One) Explain the various factors determining the gains of trade.	16	
	OR Explain "Trade as an engine of economic development".		
Q.5	Explain with criticism the classical theory of international trade.	16	

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Seat No.			Set P
M.A	۱. (Economics) (S	Sem - III) (New) (CB Advanced Ba	CS) Examination: Oct/Nov-2022 Inking
	Date: Friday, 17-02-2 11:00 AM To 02:00 P		Max. Marks: 80
सूचना	: 1) सर्व प्रश्न अनिवार्य 2) उजवीकडील अंक		
प्र.1 य 1		मागणीनुसार रक्कम देणे वयंचलित यंत्र म्हणजे — ब)	16 व त्यांची रक्कम जमा करून घेणे ही — होय. क्रेडिट
	क) डेबिट	,	ATM
2		जला जाणून घ्या ब)	तुमचे चारित्र्य जाणून घ्या वरीलपैकी काहीही नाही
3	•	—— बँकिंग क्षेत्र होय. ब)	ा व्यवहार सुलभतेने घडवून आणणारी हरित केवायसी
4	<i>,</i>	बँकेची आर्थिक स्थिती द पत्रक म्हणजे —— होर ब) ड)	ताळेबंद
5) पर्यावरण पूरक उ —— होय. अ) व्यापारी बँक क) हरित बँक	ब)	। बँकाकडून होणारा वित्तपुरवठा म्हणजे रिझर्व बँक स्टेट बँक
6) बँकेच्या सर्व शाख असे म्हटले जाते. अ) गाभा बँकिंग क) हरित बँकिंग	ब)	ी निगडित असल्याने त्याला —— शाश्वत बँकिंग इंटरनेट बँकिंग
7	, ,	यदा —— या वर्षी करण ब) ड)	•
8	,	,	ांची हमी —— या बँकिंगमध्ये अभिप्रेत शाश्वत कोअर

9)	राष्ट्रीय इलेक्ट्रॉनिक निधी हस्तांतरण सुरू झाली.	ही प्र	ाणाली भारतात नोव्हेंबर —— मध्ये	
	अ) 2003	ब)	2004	
	क) 2005	<u>ਭ</u>)		
10)	ृ हुंडी म्हणजे —— दस्तऐवज होय.	,		
	अ) चलन	ब)	लेखी	
	क) तोंडी	ਫ)	वस्तू	
11)	बँकांना गुंतवणूक व अर्ज व्यवहारातून होय.	नफ	ा मिळविण्याची क्षमता म्हणजे ——	
	अ) रोखता	ब)	लाभता	
	क) सुरक्षितता	,	असुरक्षितता	
12)	मध्ये किसान क्रेडिट कार्ड योर			
,	अ) 1 एप्रिल 1999		ु । एप्रिल 2000	
	क) 1 एप्रिल 2001	,	1 एप्रिल 2002	
12)	, एन.आर.आय.म्हणजे —— होय.	,	·	
13)	अ) ग्रामीण नसलेल्या व्यक्ती	ਹ)	अनिवासी भारतीय	
	क) गैर ग्रामीण स्थलांतरित	•		
14)	शैक्षणिक कर्ज म्हणजे —— शी संबं अ) ट्युशन फी आणि शैक्षणिक खर्च ब) पूर्वी घेतलेल्या शैक्षणिक कर्ज पर क) भारतात आणि परदेशात अभ्यासा ड) वरील सर्व	त फे	डण्यासाठी	
15)	एटीएम —— साठी वापरता येते.			
	अ) रोख पैसे काढणे	ৰ)		
	क) खात्यांचे विवरण	ਫ)	वरील सर्व	
16)	मुदत ठेवीतून जे व्याज रूपी उत्पन्न जाते त्यास —— म्हणतात.	प्राप्त	होते त्यावर जी कर आकारणी केली	
	अ) सामान्य कर	ब)	विशेष कर	
	क) मूळ स्त्रोत कर कपात (TDS)	ਫ)	वरीलपैकी काहीही नाही	
अ) ब) क) ड) इ)	क्यात उत्तरे लिहा (6 पैकी 4)) बँकेचे ताळेबंद पत्रक स्पष्ट करा.) वित्तीय व्यवस्थेची कार्ये स्पष्ट करा.) एटीएम कार्डाचे गुणदोष सांगा.) शून्य शिल्लक खात्यांची वैशिष्ट्ये स्प	ष्ट क	ज् रा .	16

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		SLR-HD-100
Я.3	खालील प्रश्नांची उत्तरे द्या. (4 पैकी 2) अ) बँकेचे गुंतवणूक धोरण स्पष्ट करा. ब) K.Y.C चे फायदे तोटे स्पष्ट करा क) योग्य कर्जाची तत्वे स्पष्ट करा. ड) हरित बँकेचे महत्व स्पष्ट करा.	16
Я.4	खालील प्रश्नांची सविस्तर उत्तरे द्या. (2 पैकी 1) अ) बँक व ग्राहक यांच्यातील विशेष परस्पर संबंध स्पष्ट करा. ब) ठेवीचे विविध प्रकार स्पष्ट करा.	16
प्र.5	खालील प्रश्नाचे सविस्तर उत्तर द्या. गाभा बँकेची संकल्पना गुणदोषासह स्पष्ट करा.	16

Seat No.	t	Set F
M.	A. (E	conomics) (Sem - III) (New) (CBCS) Examination: Oct/Nov-2022 Advanced Banking
-		Friday, 17-02-2023 Max. Marks: 8 AM To 02:00 PM
Instr	uctior	2) Figures to the right indicate full marks.
Q.1	Choo 1)	Automated process of paying customers according to their demand and collecting their amount is a) Passbook b) Credit c) Debit d) ATM
	2)	K.Y.C. Means a) Know Your Customers b) Know Your Character b) Both of the above d) None of the above
	3)	Banking system as a system that facilitates various banking transactions hrough personal computer is a) Core b) Green c) Internet d) KYC
	4)	The statement regarding assets and liabilities showing the financial condition of the bank on particular date is a) Report b) Balance sheet c) Promise note d) Account Book
	5)	Bank financing for environmentalo friendly industries or projects Is a) Merchant Bank b) Reserve Bank c) Green Bank d) State Bank
	6)	Since all the branches of the bank are affiliated to the central information center, it is called a) Core Banking b) Sustainable Banking c) Green Banking d) Internet Banking
	7)	The Depositories Act was passed in the year a) 1980 b) 1996 c) 2000 d) 2005
	8)	Guarantee of human rights and a life of dignity are intended in Banking. a) Green b) Eternal c) Internet d) Core
	9)	National Electronic Funds Transfer was started in India in November a) 2003 b) 2004 c) 2005 d) 2006
	10)	Bill of exchange is a Document. a) Currency b) Written

Objects

ď)

c)

Oral

	11)	a)		b) d)	Profibility Insecurity	•
	12)	Kisa a) c)	an Credit Card started in 1 April 1999 1 April 2001	 b) d)	1 April 2000 1 April 2002	
	13)	N.R. a) c)	.I .Means Non-Rural Persons Non-Rural Migrants	b) d)	Non-Resident Indians None of these	
	14)	Edu a) b) c) d)	cational loan is related to Tuition fees and education The repayment of eduction Approval for study in India All of the above	ned loan ta		
	15)	ATM a) c)	A can be used for Cash withdrawal Account details	b) d)	Account inquiries All of the above	
	16)	The a) c)		b)	ed from term deposit is called Special tax None of the above	·
Q.2	Ans a) b) c) d) e) f)	Expla Expla Ment Expla Expla	n short. (Any four out of sain the balance sheet of a bain the functions of financial tion the advantages and distain the features of zero balation the methods of salvation ain the characteristics of RIC	oank. I system. advantage ance accou		16
Q.3	Ans a) b) c) d)	Expla Expla Expla	he following question (An ain the investment policy of ain the advantages and disa ain the principles of lending ain the importance of Green	the bank. advantage:		16
Q.4	Ans a) b)	Expla	he following question in dain the special mutual relational the different types of de	onship bet	v 1 out of 2). ween the bank and the customer.	16
Q.5			he following question in deep concept of core bank with			16

				0
Sea No.				Set P
N	Л.А. ((Hindi) (Semester - III) (New) Film N	-	CS) Examination: Oct/Nov-2022
-		te: Friday, 17-02-2023 00 AM To 2:00 PM		Max. Marks: 80
सूचन) सभी प्रश्न अनिवार्य हैं। दाई ओर लिखे अंक प्रश्न के गुण द	र्शाते	हैं ।
Я.1	निम्न लिखि		ल्पों मे	ं उचित विकल्प चुनकर वाक्य फिर से 10
	1)	फिल्म के लिए मराठी में —— शब्द	प्रयुव	त्त होता है।
	,	अ) टेलीफिल्म	ब)	फिल्म
		क) चित्रपट	ਫ)	तीनों भी
	2)	भारत में प्रथम चलचित्र प्रदर्शन —	– वर्ष	हुआ।
	,	अ) 1880	ब)	1885
		क) 1890	ਫ)	1896
	3)	संसार का पहला स्टुडिओ ने	स्थापि	ति किया था।
	-	अ) खुर्शेदजी बाटलीवाला		दादा साहब फालके
		क) लेयॉन गॉमोट	ਫ)	ल्युमियरे
	4)	भारतीय द्वारा फिल्म निर्माण का प्र	थम प्र	यास —— ने किया है।
		अ) दादा साहब फालके	ब)	हरिश्चंद्र भाटवडेकर
		क) बाबूराव पेंटर	ਫ)	सुचेत सिंह
	5)	दादा साहेब फालके सम्मान से सर्वप्र	ाथम -	को सम्मानित किया गया था।
		•	-	पृथ्वीराज कपूर
		क) देविका रानी	ਫ)	कानन देवी
	6)	निम्न में से प्रवासी भारतीय पर केंद्री		
		अ) हम आपके है कौन	,	
		क) कभी अलविदा ना कहना	ਫ)	उक्त सभी
	7)	फिल्म शूटींग का सेट निर्माण कार्य		
		,	,	कला निर्देशक -
		क) एक्शन एडीटर	. ,	कैमरामन
	8)	कोरिओग्राफर का काम —— होता		. 0 0 4
		अ) नृत्य निर्देशन	,	संगीत निर्देशन
		क) सेट निर्देशन	ड)	वेशभषा निर्देशन

9)		करना	हो तो उसके शूटींग की अनुमति लेने	
	का दायित्व —— का होता है।	→ \		
	अ) सिनेमेटोग्राफर क) फिल्म निर्देशक	ष <i>)</i> .ਦ)	म्युझिक डायरेक्टर प्रोडक्शन मैनेजर	
40)				
10)	'ओ माय गॉड' यह फिल्म —— भ		0.0	
	अ) मराठी क) गुजराती	ब) .ਦ)	हिंदी कन्नड	
`	, 3	,		
11)	'ओ माय गॉड' फिल्म में वकील हा			
	अ) परेश रावल	,	महेश मांजरेकर	
	क) अनुपम खेर		ओम पुरी	
12)	'दंगल' फिल्म —— को प्रदर्शित हु		<u> </u>	
		-	23 दिसंबर 2017	
	,	,	23 जनवरी 2017	
13)	पटियाला में प्रशिक्षण हेतु चयन होने	ने के ब	गद गीता फोगाट के चरित्र में ——	
	परिवर्तन आता है।			
	अ) टीवी देखना क) लंबे बाल रखना	•	रस्ते पर मिलनेवाला खाना खाना सभी	
,		,		
14)	'म्हारी छोरियाँ छोरों से कम हैं के?			
	अ) ओ माय गॉड क) दंगल	,	तारे ज़मीन पर मैरी कॉम	
	•	,		
15)	फिल्म को दिल्ली सरकार द्	_		
	अ) तारे ज़मीन पर क) ओ माय गॉड	· .	दंगल	
		,	दबंग	
16)			म पुरस्कार' —— को प्राप्त हुआ है।	
	अ) 2007 T) 2010	ब) - ∙\	2009	
	क) 2012	ਫ)	2008	
निम्न	लिखित में से किन्हीं चार प्रश्नों के उ	रत्तर सं	iक्षेप में लिखिए।	16
 अ)			नाम लिखकर उनकी भूमिका संक्षेप में	
,	समझाइए।		ζ.	
ৰ)	'दंगल' फिल्म में चित्रित गीता और	बबीत	। फोगाट इन दो बहनों का चरित्र	
— \	चित्रण कीजिए।		<u> </u>	
क) ड)	पहले सवाक् सिनेमा की संक्षेप में र		रा दा।जए। ऱ्वारा अभिनीत पिता की भूमिका पर	
9)	चर्चा कीजिए।	an C	र्वात जागात विता का मूर्विम वर	
	991 9/11/01 1			
इ)	फिल्म निर्देशक एवं कला निर्देशक	का क	ार्य संक्षेप में बताइए।	
इ) फ)			• •	

ਸ਼.2

Я.3	निम्नी	लेखित में से किन्हीं दो प्रश्नों के उत्तर संक्षेप में लिखिए।	16
	अ)	समकालीन सिनेमा पर प्रकाश डालिए।	
	ৰ)	'ओ माय गॉड' फिल्म में अक्षय कुमार द्वारा अभिनीत 'श्रीकृष्ण' की भूमिका की	
		विशेषता लिखिए।	
	क)	'दंगल' फिल्म की निर्देशन की दृष्टी से समीक्षा कीजिए।	
	ভ)	'ओ माय गॉड' फिल्म में चित्रित पाखंड पर प्रकाश डालिए।	
Я.4		लेखित प्रश्नों में से किसी एक प्रश्न का उत्तर लिखिए।	16
	'तारे	जमीन पर' फिल्म की कथावस्तु लिखिए।	
		अथवा	
	सिनेम	ा का कला पक्ष विस्तार से स्पष्ट कीजिए।	
प्र.5	'दंगल	' फिल्म का कथानक विस्तार से लिखिए।	16
प्र.5	'दंगल	' फिल्म का कथानक विस्तार से लिखिए।	•

No.	Seat No.		Set	Р
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IVI .	.A. (E	ngiisn) (Semester - III) (New: 21 st Cer		5) Examination: Oct/Nov-202 ills	<u> </u>
-		e: Friday, 17-02-2023 0 AM To 02:00 PM	,	Max. Marks	s: 80
Instr	uctio	ns: 1) All questions are compulsor 2) Figures to the right indicate		s.	
Q.1	Cho (1)	ose the correct alternative from a of the following is not a can be a determined a determined by the can be a determined by the c		king skill.	16
	2)	•	,	ridence observation and argument Creativity Productivity	
	3)	Critical thinking is not a) disciplined thinking c) open minded	b) d)	clear irrational	
	4)	Cultural awareness is similar with a) cultural polyvalency c) creativity	b) d)	adaptability cultural understanding	
	5)	Communication process does not a) sender c) the class of the sender	t involve t b) d)	he component message receiver	
	6)	is a phenomenon wherea) Collaborationc) Creativity	-	ning new and valuable is termed. Productivity Curiosity	
	7)	of the following is not thea) Self-awarenessc) Receiver	part of a b) d)	communication process. Sender Feedback	
	8)	Without of the following co a) creativity c) channel	ommunica b) d)	tion on process is not complete. feedback productivity	
	9)	of the following is not include a) Self awareness and priority to b) Ethical and civic mindedness c) Reserved mindedness d) Focus on developing others	o persona	• •	
	10)	is the expression not son circumstances. a) Productivity c) Collaboration	neone's a b) d)	bility to adapt to changing Creativity Flexibility	

	11)	,	of the following n Plagiarism Productivity	neans committi b d)	iterary theft. Self-awareness Citizenship	
	12)	a) c)	of the following is Technological literac Social skill)	Flexibility Leadership	
	13)	a) c)	of the following is Knowledge of techno Knowledge of interno	ology b)	n digital literacy. Knowledge of fiction Knowledge of computer	
	14)	a) b) c) d)	of the following is Plagiarism Hypothesis Building and maintai Research design			n research.	
	15)	a)	of the following is Critical thinking skill Linder standing the p No through understa Awareness of media	process of mas nding of media	s co me	ommunication essages	
	16)	a) c)	of the following ca Communication Incomprehension	nnot be groupe b d)	nder digital literacy. Practical skills ICT knowledge	
Q.2	a) b) c) d)	Wha Write Wha Write	of the following quest is communication? It is creativity? It is a note on the skill of the critical thinking? It is a note on the term cuts various excellent of	adaptability. ultural understa	ndi	ng.	16
Q.3							16
Q.4	Ans a)		of the following ques ain the concept of digi	, -	-	with its aspects.	16
	b)	Wha	t is digital literacy? Dis	_	e va	rious aspects.	
Q.5	Wha	at is n	nedia literacy? Discus	S.			16

Seat	Set	D
No.	Set	

M.	.A. (E	ingl	ish) (Semester - III) (New Introduction		-	2022
-			iday, 17-02-2023 // To 02:00 PM		Max. M	arks: 80
Instr	ructio		1) All questions are compulsory 2) Figures to the right indicate f			
Q.1	Rew belo 1)	w. 	the following sentence by ch were the first to present prodience in December 1895 Paris	ojected m	_	16
		a) c)	William Brothers Chaplin Brothers	b) d)	Lumiere Brothers Sergeie Brothers	
	2)	a) c)	of the following is an esser Sound Compound	ntial eleme b) d)	ent of the film language. Round All of these	
	3)	fun film a)	damental aesthetic elements ir	•	Momentum	
	4)	c)	Digital	d)	Collage	
	4)	a) c)	of the film is similarly the the The deposite The effects	b) d)	The statistics The semiotics	
	5)	a) c)	introduced the first motion Dhundiraj Govind Phalke Annasaheb Kirloskar	picture in b) d)	India in the late 1910s. Amitabh Bachhan None of these	
	6)	a)	e Father of Indian Cinema is Mahesh Bhatt Vikram Ghokale	b) c)	Dada Saheb Phalke Ashok kumar	
	7)	a) c)	is considered the first super Deva Anand Sohel Khan	rstar in Ind b) d)	dian Cinema. Amrish Agashe Rajesh Khanna	
	8)	Am a) c)	nitab Bachhan is popularly know Angry young man The first man	vn as b) d)	of Indian Cinema. The last man All of these	
	9)	ma a) c)	films traditionally contain dany require the use of physical s Romantic Crime	_	situation and high-risks and ht. Action Love story	
	10)	exa a) c)	films are intended to make aggeration of language. Horror Comedy	the audie b) d)	ence laugh through their use of Action Drama	

	11)		film is defined ween two protagor		re the	e plot revolves around the love	
			Action Melodrama	11010.	b) d)	Horror Love story	
	12)		films are desig en in a terrifying sh	_	,	invoke our hidden worst fears,	
		a) c)	Horror Dramas		b) d)	Musical Comedies	
	13)	,	is the first step Production sched Screen writing	in film production Iule	n. b) d)	Concept and ides generation None of these	
	14)		spend money on y Screening Budget	our film carefully	, you b) d)	make a Distribution All of these	
	15)		is mostly about Budget Script writing	t dialogue and ho	w the b) d)	e various characters speak. Distribution Casting	
	16)		ensures every anced.	audio element wi	thin a	a film's soundtrack is correctly	
			Sound mixing		b) d)	Promotion Visual effects.	
Q.2	a) b) c) d) e)	Wha Write Write Desc Wha	ort answers. (Any t is a film? e in brief on the orice in short on the circibe in short, the ct is a digital aesthe in brief on the ser	gin of Cinema. nema at global levencept of the langetics?		e of Cinema.	16
Q.3	a) b)	Write Write India Wha	e a critical note on a In Cinema. t is an angry young	igin and develop the emergence o	ment f talki	of 4) of the Indian Cinema. ies with special reference to ibe with special reference to	16
			in Cinema. e a detailed note or	n the rise of multi	plexe	s in Indian Cinema.	
Q.4			the following que e a detailed critical		r ger	•	16
	,		•	· ·	te an	essay on the types of films.	
Q.5			the following que a film production? V		ote o	n the basics of film production.	16

Sea	ıt					Set	Р			
No.							_			
M.	M.A. (Marathi) (Semester - III) (New) (CBCS) Examination: Oct/Nov -2022 मराठी भाषा आणि स्पर्धा परीक्षा									
		te: Friday, 17-02-2 00 AM To 02:00 P	2023			Max. Marks	: 80			
) सर्व प्रश्न अनिवाय								
VZ-			पुर्ण गुण दर्शवितात.							
Я.1	खार्ल 1)		र्याय निवडून गाळलेल्य 1 प्रथम कोणी वापरली?		जागा भरा.		16			
	')	अ) जॉन डयुई क) सर जोसेफ	ब्र)	विल्यम जॉन थॉम्स जॉर्ज ऑरवेल					
	2)	,	संज्ञा मराठीत प्रथम को	,						
	-,	अ) प्रभाकर मांडे	·		विश्वनाथ शिंदे					
		क) रा. चिं. ढेरे	ड	5)	दुर्गा भागवत					
	3)	कोकण परिसरात	कोणते लोकनाटय सा	दर	होते?					
		अ) सोंगी भजन	ब्)	खडीगंमत					
		क) दशावतार	ड	5)	डहाक					
	4)	दान पावलं, दान असते?	पावलं असे गीत खाली	ोलां	पैकी कोणत्या उपासकांच्या त	तोंडी				
		अ) पिंगळा	ब्र)	वासुदेव					
		क) पोतराज	ड	5)	गुरव					
	5)		केती स्तर कल्पिले आहे		_					
		अ) चार क) दोन	•		तीन					
	۵)	,		5)	पाच					
	6)	भाषा नित्य —— अ) परिवर्तनशील	•)	सांस्कृतिक					
		क) धार्मिक	·	-	यापैकी नाही					
	7)	,		•	योजन' ग्रंथाचे लेखक कोण	आहेत?				
	•,	अ) स. ग. मालश्			वि. ग. मालशे	-112 11.				
		क) अशोक माल	शे ड	5)	मिलिंद मालशे					
	8)	डांग हा प्रदेश स	ध्या कोणत्या राज्यात ३	आहे	?					
		अ) महाराष्ट्र	ब्रे)	गुजरात					
		क) मध्यप्रदेश	ड	5)	आंध्रप्रदेश					

9)	अहिराणी बोलीचे प्रदेशवाचक नाव क	गय अ	ाहे?	
	अ) डांगी	ब)	9 .	
	क) माणदेशी	,	खानदेशी	
10)	भारतीय बोलींचा अभ्यास कोणी केल		_	
	अ) सर जॉर्ज ग्रिअर्सन	,	एलफिन्सटन्	
	क) मॅकबेथ	ਫ)	ना. गो. कालेलकर	
11)	भाषा ही अर्जित असते. म्हणजेच ती	आपल	याला ——.	
	अ) परंपरेने मिळते	•	अनुवंशिकतेने मिळते	
	क) शिकावी लागते	ਫ)	यापैकी नाही	
12)	तमाशा सादरीकरणात वगाचे स्थान	कधी ३	असते?	
	अ) शेवटी	ब)	प्रारंभी	
	क) भैरवीनंतर	ਫ)	यापैकी नाही	
13)	भौतिक संस्कृतीमध्ये खालीलपैकी को	णत्या	घटकांचा समावेश होतो?	
,	अ) लोकनृत्य		वैद्यकशास्त्र	
	क) धार्मिक विधी	ਫ)	लोककथा	
14)	प्रमाणभाषा —— प्रदेशात वापरली ज	नाते.		
,	अ) मर्यादित	ब)	विस्तृत	
	क) बोली	ड)	यापैकी नाही	
15)	बोली म्हणजे अशुध्द भाषा हा भाषेवि	षयीच	· ——.	
,	अ) गावंढळपणा आहे			
	क) योग्य दृष्टीकोण आहे			
16)	भाषेच्या बाबतीत बोलणे महत्त्वाचे तर	लेख	न ही —— प्रक्रिया आहे	
,	अ) प्राथमिक	ब)	कनिष्ठ	
	क) दुय्यम	<i>ड</i>)	यापैकी नाही	
	, 3	,		
	लिपैकी प्रश्नांची थोडक्यात उत्तरे लिहा	. (को	णतेही चार)	16
अ) -\	भाषेची कार्य थोडक्यात लिहा.			
ब) क	मराठीतील लोकनाटयाचे वेगळेपण वि		 	
क) ड)	अहिराणी या बोली भाषेची ओळख क डांगी बोलीचे भौगोलिकतेनुसार असप			
ड) इ)	लोकसाहित्याच्या कोणत्याही दोन व्य			
इ) ई)	प्रमाणभाषा म्हणजे काय ते थोडक्यात			
_	लिपैकी प्रश्नांची उत्तरे लिहा. (कोणतेर्ह			16
अ) ब्र)	लोकसाहित्य संकल्पनेतील 'लोक' या सामाजिक स्तरानुसार भाषावैविध्य क			
ब) क)	लोककथा म्हणजे काय ते सांगून लो			
^५ /) ड)	लांग व परोल या भाषिक संकल्पना			

Я.2

प्र.3

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OL.	-17	- 1 1	_	- 1	v	•

प्र.4	खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही एक) लोकसाहित्याचे स्वरुप स्पष्ट करुन व्याप्ती लिहा.	16
	किंवा	
	प्रमाणभाषा व बोली भाषा सहसंबंध सविस्तर लिहा.	

प्र.5 लोकसाहित्याचे प्रकार नोंदवून लोकगीतांविषयी सविस्तर लिहा.

Seat No.			Set P
	larathi) (Semes	ter - III) (New) (CI प्रसारमाध्यमे आणि	 BCS) Examination: Oct/Nov -2022 भाषाव्यवहार
	e: Friday, 17-02-20 00 AM To 02:00 PM)23	Max. Marks: 80
~ ·	सर्व प्रश्न अनिवार्य उजवीकडील अंक		
प्र.1 खाली 1)		<u>a</u>)	जागा भरा. 16 णत्या माध्यमाचे ब्रीद वाक्य आहे? दूरचित्रवाणी व्हाट्सअप
2)	,	य —— यांनी लावला. अर्ड ब)	विल्यम रोबर्ट मादाम क्युरी
3)	वस्तू आणि सेवेसात अ) विक्री क) खरेदी	ब)	ग्याच्या कलेला —— म्हणतात? जाहिरात माहिती
4)	आकाशवाणीवरील अ) जिंगल क) गझल	ब)	ाा गीताला काय म्हणतात? कविता चारोळी
5)	पोतराज हा कोणत्य अ) तुळजाभवानी क) रेणुका	या देवाचा उपासक अर ब) ड)	महालक्ष्मी
6)	लोकरंगभूमी हा ग्रंध अ) प्रभाकर मांडे क) तारा भवाळकर	<u>ब</u>)	0 0.1
7)	Twiter चे मुख्यालय अ) सॅन फ्रान्सिस्क क) अमेरिका		दुबई ब्रिटन
8)	हे कोकण प अ) कीर्तन क) गोंधळ	रिसरातील एक प्रसिद्ध ब) ड)	लोकनाट्य आहे. भारूड दशावतार

9)	आकाशवाणीवरील —— हे नभोनाट्य अ) पथनाट्य क) एकांकिका	ৰ)	त्रघुरूप आहे. श्रृतिका रूपक	
10)	, ,	र व)	व्यक्तीस —— म्हणतात.	
11)	मधमाशी यांचा आपआपसातील सांकी अ) गायन क) नृत्य	ब)	संवाद —— तून होती. वादन संभाषण	
12)	श्रोत्यांच्या जिव्हाळयाच्या प्रश्नांवर केर्त अ) लघुनाट्य क) श्रुतिका	नेला ब)		
13)	आकाशवाणीवरील सर्व कार्यक्रमात ख अ) जाहिरात	, ालील ब)	ापैकी कशाला अधिक महत्व असते? उद्घोषणा	
14)	क) बातमी वाध्या — मुरळीच्या गीतात —— देव अ) तुळजाभवानी क) म्हसोबा	तांचे ब)	गीत वर्णन येते. श्रीकृष्ण खंडोबा	
15)	,	<i>७)</i> ब)	2008	
16)	क) 2005	ड) ाट्याव	1992 म संवाद व कर्ण मधुर शब्दांची योजना	
	अ) दूरचित्रवाणी क) आकाशवाणी	ब)	साठा करावा लागता. चित्रपटक यापैकी नाही	
खार्ल अ) ब) क) ड) ई)	तिपैकी प्रश्नांची थोडक्यात उत्तरे लिहा. प्राण्यांच्या भाषेचे स्वरूप स्पष्ट करा. लोकनृत्याचे स्वरूप लिहा. आकाशवाणीवरील श्रृतिकाचे स्वरूप वि ओाशवााणीवरील उदघोषणेचे स्वरूप र Twitter या समाजमाध्यमाचे स्वरूप स मुद्रित माध्यमातील भाषेचे विशेष लिह	लेहा. व मह पष्ट	इत्त्व लिहा.	16
खार्ल अ) ब) क) ड)	तिपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही दूरचित्रवाणीचे स्वरूप व महत्त्व स्पष्ट प्रसारमाध्यमाची संकल्पना व स्वरूप र आकाशवाणीतील मुलाखतचे स्वरूप व नियतकालिकांचे स्वरूप आणि वाङमर	करा स्पष्ट १ मह	करा. त्त्व स्पष्ट करा.	16

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प्र.4	खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणताही एक)	
	लोकगीत म्हणजे काय? ते सांगून स्त्रीविषयक लोकगीतांची उदाहरणे स्पष्ट करा.	

किंवा

आकाशवाणीतील कार्यक्रमांचे स्वरूप व महत्व स्पष्ट करा.

प्र.5 भाषेचे स्वरूप स्पष्ट करून मराठी भाषेचे उपयोजित क्षेत्रे कोणती ते सविस्तर लिहा.

			SLR-HD-113				
Seat No.			Set P				
ľ	M.A. (Political Scie	ence) (Semester - I Oct/Nov-2 International Org					
	& Date: Friday, 17-02-2 : 11:00 AM To 02:00 P		Max. Marks: 80				
सूचना	सूचना : 1) सर्व प्रश्न अनिवार्य आहेत. 2) उजवीकडील अंक पुर्ण गुण दर्शवितात.						
	योग्य पर्याय निवडा 1) खालीलपैकी संयुव अ) सुरक्षा समिती क) सिटो	क्त राष्ट्राचे मुख्य अंग आ ब) ड)	16 हे. नाटो सेन्टो				
;	2) सार्क संघटनेची र अ) 1987 क) 1980	स्थापना केव्हा झाली? ब) ड)	1985 1975				
;	3) संयुक्त राष्ट्र संघ अ) 1950 क) 1945	टनेची स्थापना केव्हा झाव ब) ड)	त्री? 1948 1952				
•	4) सुरक्षा समितीत व अ) 7 क) 10	गायदा सदस्य किती आहे ब) ड)	त? 15 5				
	, आहे. अ) चीन	ब)	सार्क' संघटनेत प्रवेश देण्यात आला अफगुणिस्तान				
(क) म्यानमार 6) आंतरराष्ट्रीय न्यार अ) पॅरिस क) हेग		न्यूयॉर्क				
	,	७) म्हणून कोणता करार झ ब) ड)					

ब) सेंन्टो

ब)

ਭ)

ड) डब्लू–टी–ओ

मलेशिया फिलिपाईन्स

--- ही प्रादेशिक संघटना नाही.

यापैकी देश एशियनचा सदस्य नाही.

8)

9)

अ) सिटो

क) वॉर्सा

क) भारत

अ) इंडोनेशिया

	10)	सुरक्षा परिषदेचे कायमचे सदस्य देश कोणते? अ) अमेरिका—इंग्लंड—भारत—फ्रान्स—चीन ब) अमेरिका—इंग्लंड—फ्रान्स—रशिया—चीन क) अमेरिका—इंग्लंड—फ्रान्स—स्वित्झर्लंड—चीन ड) अमेरिका—इंग्लंड—फ्रान्स—रशिया—जपान					
	11)	एशियन ची स्थापना केव्हा झाली?	→ \	1007			
		अ) 1964 क) 1968	ब) ड)	1967 1969			
	12)	सध्या संयुक्त राष्ट्राचे अध्यक्ष कोण अ अ) बान की मून क) नेल्सन मंडेला	गाहेत. ब) ड)				
	13)	सार्क संघटनेत किती सदस्य देश आ अ) 7	ब)	9			
	14)	क) 11 नाटोची स्थापना केव्हा झाली. अ) 1948 क) 1949	ਫ) a)	1950			
	15)	क) 1949 आंतरराष्ट्रीय सुरक्षितता व शांतता राज् अ) सार्क क) नाटो	_	1951 कोणाचे उद्दिष्ट आहे. यूनो नाम			
	16)	, संयुक्त राष्ट्र संघटनेत किती सदस्य अ) 193 क) 150	. '				
Я.2	अ) ৰ) ক) ভ) ছ)	ज्यात उत्तरे लिहा (6 पैकी 4) आंतरराष्ट्रीय संघटनेचे वर्गीकरण कर वॉर्सा करार. एशियन संघटनेच्या सदस्यांची (राष्ट्र) प्रादेशिक संघटना म्हणजे काय? सुरक्षा परिषदेच्या नकाराधिकार म्हणज् आंतरराष्ट्रीय संघटनेचे उदिष्टये काय	नावे जे का	सांगा? य?	16		
Я.3	अ) ब) क)	तरी प्रश्न (4 पैकी 2) युरोपियन युनियनचे उद्दिष्टये काय अ यूनोमार्फत सोडविलेल्या प्रश्नांची चर्च राष्ट्रसंघाचे यशापयश. सुरक्षा समितीची कार्ये सांगा?			16		

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प्र.4	दिर्घोत्तरी	प्रश्न	(2	पैकी	1)	
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- अ) संयुक्त राष्ट्राच्या यशापयशाचे मूल्यमापन करा. ब) सार्कचे ध्येय आणि उद्देश सांगा.

प्र.5 दिर्घोत्तरी प्रश्न

16

संयुक्त राष्ट्राच्या महासभेची रचना, अधिकार व कार्ये स्पष्ट करा.

Seat	Sat	D
No.	Set	

M.A. (Political Science) (Semester - III) (New) (CBCS) Examination:

	IVI.A.	Oct/Nov		
		International O	_	
•		: Friday, 17-02-2023) AM To 02:00 PM		Max. Marks: 8
Instr	uction	s: 1) All questions are compulsory. 2) Figures to the right indicate full i	marks	
Q.1	Choo 1)	Following which is the UNO main org a) Security Council c) SEATO	-	ons. 1 NATO CENTO
	2)	SAARC organization established in _ a) 1987 c) 1980	b) d)	 1985 1975
	3)	United Nations organization establish a) 1950 c) 1945	ned in b) d)	 1948 1952
	4)	How many permanent members in that a) 7 c) 10	e seci b) d)	urity council? 15 5
	5)	Which one of the following countries a) Chinac) Myanmar	is rece b) d)	ently admitted to SAARC? Afghanistan Thailand
	6)	Where is the International court? a) Paris c) Hegue	b) d)	New York Berlin
	7)	Which treaty is the NATO treaty of Arab League	nti-Rea b) d)	action? CENTO Warsaw
	8)	Which among the following is not a real SEATO c) WARSAW	egiona b) d)	ll defense organization? CENTO WTO
	9)	Which Nation is not the member of A a) Indonesia c) India	SEAN b) d)	l? Malaysia Philippines
	10)	Which are the permanent members of a) US, UK, India, France, China b) US, UK, France, USSR, China c) US, UK, France, Switzerland, Ch d) US, UK, France, USSR, Japan		urity council?
	11)	'ASEAN' organization established in a) 1964	b)	 1967

d)

1969

c) 1968

	12)	Now who is the president of General a) Ban Ki Moon c) Nelson Mandela	ral Asse b) d)	mbly UNO? Shashi Tharur None of these	
	13)	How many member country are the a) 7 c) 11	ere in SA b) d)	AARC organization? 9 8	
	14)	When was NATO established? a) 1948 c) 1949	b) d)	1950 1951	
	15)	What are the objectives of Internat a) SAARC c) NATO	ional Se b) d)	curity and peace? UNO NAM	
	16)	How many countries are members a) 193 c) 150	of Unite b) d)	d Nations? 189 145	
Q.2	 Write Short Answers (Any Four) 1) Write the classification of International organization. 2) WARSAW Agreement. 3) Name of the countries who are member of ASEAN. 4) Define Regional Organization. 5) What is meant by the Veto-Power of Security Council? 6) What is the purpose of International Organization? 				
Q.3	1) 2) 3)	te Answers in brief. (Any Two) Who is the purpose of European Un Discuss the problems settled by the Achievements and failure League of Functions of Security Council.	UNO.		16
Q.4	1)	wer the following questions. (Any Explain the success and failure of U Aims and objectives of SAARC.		itions.	16
Q.5	Stat	e the composition, powers and funct	ions of (General Assembly of UNO.	16

Seat No.						Set	P
M.A	A. (His	• • •	ster - III) (New) (ory of India (18		CS) Examination: Oc a. D1964A. D.)	:t/Nov-202	22
-		Friday, 17-02-2 AM To 02:00 Pl				Max. Marks	: 80
सूचना		र्व प्रश्न अनिवार्य जवीकडील अंक	ं आहेत. पूर्ण गुण दर्शवितात.				
			<mark>र्याय निवडून गाळलेल</mark> ध्ये दुहेरी राजवट सु				16
1	अ	— याना बनालन) लॉर्ड क्लाईव्ह) लॉर्ड कार्नवार्ग		ब)	^{7ला.} लॉर्ड वेलस्ली लॉर्ड हेस्टिंग्ज		
2	2) 1		जे —द—गामा भारताच	, या - ब)	-— या बंदरात पोहोचला. सूरत गोवा		
3	s) ਦ ਤ		ा जनक —— यास लेस	, ਸਵਟ ब)			
4	अ	_	ग ग्रंथाचे लेखक कोष नी शिंदे	ब)	गौतम बुद्ध डॉ. बाबासाहेब आंबेडकर		
5	अ		,	ब)	— मध्ये संपुष्टात आली. 1600 1947		
6	अ	ारतीय राष्ट्रीय व) 1 डिसेंबर 18) 28 जून 1885		ब)	या दिवशी झाली. 28 डिसेंबर 1885 1 एप्रिल 1885		
7	अ	— यांनी कायग) लॉर्ड हेस्टींग्ज) लॉर्ड रिपन		ब)	द्धत सुरू केली. लॉर्ड कार्नवालिस लॉर्ड क्लाईव्ह		
8	व	— या चार्टर उ रण्यात आले.) 1818		ি (হী) ब)	क्षणासाठी दरवर्षी 1 लाख र 1861	ज्पये मंजुर	
	क	1813	-	ਫ)	1833		

9)	कायमधारा पद्धत —— यांना त्रासद अ) जमीनदार क) इस्ट इंडिया कंपनी	ब)	शेतकरी	
10)	भारतीय राष्ट्रीय काँग्रेसची स्थापना - अ) डॉ. ॲनी बेझंट	 ब)		
11)	28 सप्टेंबर 1873 रोजी —— येथे र आली. अ) पुणे क) दिल्ली	ब)	ोधक समाजाची स्थापना करण्यात मुंबई लखनऊ	
12)	द पावर्टी ॲण्डअन्—ब्रिटीश रूल इन अ) दादार्भाई नौरोजी क) लोकहितवादी	ब)	या हा ग्रंथ कोणी लिहिला. अरविंद घोष लोकमान्य टिळक	
13)	मोर्ले—मिटो सुधारणा कायदा —— उ अ) 1861 क) 1909	ब)		
14)	भारतीय राष्ट्रीय काँग्रेसचे पहिले अधि अ) पुणे क) दिल्ली	ब)	—— या ठिकाणी भरविण्यात आले. मुंबई सुरत	
15)	यांनी ब्राम्हो समाजाची स्थापन अ) राजा राममोहन रॉय क) स्वामी दयानंद सरस्वती	ब)	न्यायमुर्ती रानडे	
16)	बंगालची फाळणी —— या गव्हर्नर अ) लॉर्ड क्लाईव्ह क) लॉर्ड कर्झन	ब)	लने केली. लॉर्ड रिपन लॉर्ड कॅनिंग	
अ) ब)	लिपेकी प्रश्नांची थोडक्यात उत्तरे लिह ब्रिटीशकालीन जिल्हा प्रशासन महालवारी पद्धत ब्रिटीशकालीन व्यापार जातीय चळवळी ब्रिटीशकालीन भारतीय स्त्रियांचे स्था जहालमतवादी		णतेही चार)	16
अ) ब)	त्याही दोन टिपा लिहा. कायमधारा पद्धती भारत व आफगणिस्तान संबंध लॉर्ड मेकालेचे शिक्षणविषयक धोरण लोकमान्य टिळक			16

ਸ਼.2

Я.3

ПΛ	खालीलपैकी	कोणत्यादी	ग्रका	पश्नाने	उत्तर	ਕਿਵਾ
У .4	<u> जालालपपग</u>	4/14(416)	९५ग	אניווא	7110	וטוטו

16

लॉर्ड विल्यम बेंटींगच्या सामाजिक सुधारणांची चर्चा करा.

किंवा

भारतीय शेतीच्या व्यापारीकरणाची कारणे व परिणामाची चर्चा करा.

प्र.5 1885 ते 1905 पर्यंतचे राष्ट्रीय सभेचे कार्य सांगा.

16

Seat	2-1	
No.	Set	P

M.	A . (H	istory) (Semester - III) (New) (History of India (185		•	:/Nov-2022
_		e: Friday, 17-02-2023 O AM To 02:00 PM		•	Max. Marks: 80
		ns: 1) All questions are compulsory. 2) Figures to the right indicate full	marks		
Q.1	Select 1)	ct the appropriate word: System of Dual Government in Beng a) Lord Clive c) Lord Cornwallis		rted by Lord Wellesley Lord Hastings	16
	2)	Wasco-da-Gama reach atport a) Mangalore c) Calicut	of Ind b) d)	dia in 1498. Surat Goa	
	3)	is known as the father of Raya a) Lord Cornwallis c) Lord Ripan	atwari b) d)	System Lord Litan Thomas Manro	
	4)	'Brahmanachckasab' a book was wria) VitthalRamajiShindec) Mahatma Phule	b)	y Goutam Buddha Dr. BabasahebAmbedl	kar
	5)	East India Company's rule in India en a) 1857 c) 1858	nded i b) d)	n 1600 1947	
	6)	Indian National Congress was founded a) 1st Dec. 1885 c) 28st June 1885	ed on b) d)	28 st Dec. 1885 1 st April 1885	
	7)	Permanent settlement was started by a) Lord Hastings c) Lord Ripan	y the (b) d)		·
	8)	Incharter act for Indian's they Education. a) 1818 c) 1813	grante b) d)	ed per year 1 lakh rupee 1861 1833	s for
	9)	The permanent settlement proved ha a) Landlords c) East India Company	armful b) d)	to Peasants All of above	
	10)	Indian National Congress was found a) Dr. Annie Besant c) Sir Alan Hume	ed witl b) d)	h the inspiration of DadabhaiNaoroji LokmanyaTilak	e.
	11)	On 28 September 1873 at Sa a) Pune c) Delhi	b)	nodhak Samaj establish Mumbai Lucknow	ed.

	12)	a) Da	write a book Poverty adabhai Nouroji okhitwadi	ŀ	sh rul b) d)	e in India Arvind Ghosh Lokmanya Tilak	
	13)	The M a) 18 c) 19			n b) d)	 1814 1919	
	14)	Indian a) Pu c) De		ŀ	ence b) d)	was held at Mumbai Surat	
	15)	a) Ra	no Samaj Established aja Rammohan Roy wami Dayanand Sars	ŀ	b) d)	Justice Ranade Mahatma Jyotiba Phule	
	16)	a) Lo	nor Generalca ord Clive ord Curzon	ŀ	_	Partition. Lord Ripan Lord Canning	
Q.2	a) i b) i c) d d) (e) i	British D Mahalw Trade o Caste M	answer. (Any four of control of the	n ,	tish E	Era	16
Q.3	a) l b) l c) l	Perman Relatior ∟ord Ma	e following question nent settlement n of India and Afghan acaulay's Education p nya Tilak	nistan	of 4).	16
Q.4			cial reforms of Lord V	OF	₹	on of Indian Agriculture.	16
Q.5			work of the Indian Na			-	16

		<u> </u>
Seat No.		Set P
M.A	. (History) (Semester - III) (New) (C History of U	BCS) Examination: Oct/Nov-2022 J.S.S.R.
-	Date: Friday, 17-02-2022 11:00 AM To 02:00 AM	Max. Marks: 80
सूचना	: 1) सर्व प्रश्न अनिवार्य आहेत. 2) उजवीकडील अंक पुर्ण गुण दर्शवितात.	
प्र.1 ख 1)	अ) अलेक्झांडर—। ब)	
2)	सोव्हियत रशियाचे विघटन —— साली अ) 1991 ब) क) 1993 ड)	1992
3)	अ) स्टेट्स जनरल ब)	
4)) रिशयामध्ये —— या काळात गृहयुध्द झ अ) 1918—1921	1917—1920
5)	अ) पंचवार्षिक योजना ब)	नवे आर्थिक धोरण) यापैकी नाही
6)) रशियाची राजधानी —— ही आहे. अ) सेंट पीटर्सबर्ग ब) क) स्टॅलिनग्राड ड]	
7)	अ) लेनिन ब)	ने राबवला. प्लेखानोव्ह) स्टॅलिन
8)	ुसऱ्या पंचावार्षिक योजनेचा कालावधी - अ) 1928—1933 ब) क) 1938—1943 ड	1932—1937

	9)	याल्टा परिषद —— साली झाली.			
		अ) 1937	ब)	1943	
		क) 1945	ਫ)	1946	
	10)	रशियामध्ये लालसेनेची स्थापना ——	- यांन	गे केली.	
		अ) लेनिन	•	स्टॅलिन	
		क) ट्रॉटस्की	ड)	प्लेखानोव्ह	
	11)	UNO ची स्थापना —— या दिवशी	झाली		
			•	26 ऑक्टोबर 1945	
		क) 23 ऑक्टोबर 1945	ड)	24 ऑक्टोबर 1945	
	12)	पंचवार्षिक योजना यांनी सुरु	केली.		
		अ) लेनिन	,	स्टॅलिन	
		क) ट्रॉटस्की	ਫ)	करेन्स्की	
	13)	आधुनिक रशियाचा निर्माता म्हणून –		ना ओळखले जाते.	
		अ) पीटर द ग्रेट	,	स्टॅलिन	
		क) ट्रॉटस्की	ਫ)	करेन्स्की	
	14)	कार्लमार्क्सच्या तत्वज्ञानानुसार ———	या दे	शात क्रांती घडून आली.	
		अ) जर्मनी	ৰ)	चीन	
		क) रशिया	ड)	यापैकी नाही	
	15)	'सोशॅलीझम इन वन कंट्री' हे धोरण		ने स्वीकारले.	
		अ) लेनिन	,	करेन्स्की	
		क) ट्रॉटस्की	ड)	स्टॅलिन	
	16)	अतिरिक्त मूल्याचा सिध्दांत —— या	नी म		
		अ) ट्रॉटस्की	ब)	स्टॅलिन	
		क) कार्लमार्क्स	ਫ)	करेन्स्की	
πо		مرا والمعارض المارية	· /=>	, , , , , , , , , , , , , , , , , , , 	16
Я.2	खाल अ)	ालपैकी प्रश्नांची थोडक्यात उत्तरे लिहा इ.स. 1936 च्या रशियन राज्यघटनेसं	•	*	10
	ब)	रशियातील हंगामी सरकारच्या समस्य			
	कं)	रशियाच्या नवीन आर्थिक धोरणाबद्दल			
	ভ) `	रशियाच्या इतिहासातील बोल्शेविक व्र			
	इ) ई)	रशियातील पंचवार्षिक योजनांची माहि रशियाच्या इतिहासातील लेनिनचे का			
	<i>ষ)</i>	रारापाच्या इतिहासाताल लागग्य का	प सा	`II.	
Я.3	खार्ल	ालपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही	दोन)	16
	अ)	रशियन राज्यक्रांतीची कारणे स्पष्ट व		\	
	ब) क्	रशियाच्या विकासातील पंचवार्षिक य	जना	वं महत्व स्पष्ट करा.	
	क) ड)	रशियातील गृहयुध्दाचा आढावा घ्या. रशियन महसत्तेच्या उद्याची कारणे	ग्राप्ट	क्तरा	
	ارت	तराच । नवराराच्या उप्याया पगर्य	\ -1 ~C	٦/ ١١.	

CI	D	L	חו	1	1	C
J	LR	-г	IL	/ – [O

प्र.4	खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणतेही एक) रशियातील नवीन संविधानावर चर्चा करा.	16
	राशयाताल नेवान सावधानावर चर्चा करा. किंवा	
	स्टॅलिनच्या काळातील रशियाच्या प्रगतीचा आढावा घ्या.	

प्र.5 रशियन राज्यक्रांतीच्या परिणामावर चर्चा करा.

	-	
Seat	Sot	D
No.	Set	

M.A. (History) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022

14112	~. (otory, (comoci	History of U		.R.	WHOV ZOZZ
-		e: Friday, 17-02-202 D AM To 02:00 AM	22			Max. Marks: 70
Instr	uction	ns: 1) All questions 2) Figures to the	are compulsory. e right indicate full r	marks	3.	
Q.1	Choo 1)	was the ki a) Alexander-I c) Nicholas-I	ng of Russia at the	time b)	ons. of Russian revolutions Alexander-II Nicholas-II	16
	2)	The dissolution of a) 1991 c) 1993		place b) d)	e in 1992 1994	
	3)	Russian constitution a) States General c) Duma			as Parliament Raishstang	
	4)	Civil war in U.S.S. a) 1918-1921 c) 1919-1924		en _ b) d)	 1917-1920 1920-1921	
	5)	Lenin adopted the a) Five Years Plac) Policy of dece	an	,	New Economic Policy None of these	
	6)	The capital of is _ a) Sent Petersbu c) Trotsky	•	b) d)	Leningrad Stalin	
	7)	was experience was experience was experience a) Lenin c) Trotsky		b)	rming in Russia. Plekhanow Stalin	
	8)	The duration of Sea) 1928-1933 c) 1938-1943		an is _. b) d)	 1932-1937 1935-1940	
	9)	held the Na) 1937 c) 1945		b) d)	1943 1946	
	10)	was estal			ssia. Stalin Plekhanov	
	11)	The establishment a) 25 Oct. 1945 c) 23 Oct. 1945		da b) d)	1y. 26 Oct. 1945 24 Oct. 1945	

	12)		e five year pian was started by _. Lenin	b)	Stalin	
		,	Trotsky	ď)	Kerensky	
	13)		own as the creator of modern R			
		,	Peter de Great Trotsky	b) d)	Stalin Kerensky	
	14)		cording to the philosophy of Kai untry.	rl Marks	s, a revolution place in the	
		,	Germany Russia	b) d)	China None of these	
	15)	a)	e policy of 'Socialism in one cou Lenin Trotsky	ıntry' wa b) d)	as adopted by Kerensky Stalin	
	16)		theory of additional values wa Trotsky Karl Marks	s propo b) d)	osed by Stalin Kerensky	
Q.2	Ansv a) b) c) d) e) f)	Give Wha Give Stat Give	the following questions. (Any e the information about 1936 coat are the problems of Provision the the information about New Ecte the importance of Bolshevik Rethe information about Five yeate the work of Lenin in Russian	onstitutional Government onomic Revolution	ernment of Russia? Policy of Russia. ion in Russian History. in Russia.	16
Q.3	a) b) c)	Exp Exp Rev	the following questions. (Any lain the causes of Russian revolain the importance of five year riew at the civil war in Russia. It lain the causes for rise of the R	olution. plan in		16
Q.4			the following questions. (Any the new constitution in Russia.	One)		16
	Revi	ew o	of Russia's Progress under Stal		od.	
Q.5	Disc	uss t	the effects of Russian Revolution	n in 19	17.	16

Seat	Set	D
No.	Set	

	M	l.A. (Indi	an Music) (S	emester - III) Oct/Nov -2	(New)(CBCS) E 022	Examination:
			Folk	Music of Ma	-	
•		•	, 17-02-2023 02:00 PM			Max. Marks: 80
सूच			ा अनिवार्य आहेत डील अंक पूर्ण गु			
प्र.1	खार्ल 1)			वडून गाळलेल्या	जागा भरा. ाठी वापरला जातो.	16
	1)	ঞালাল अ) For			Folk	
		अ) Tol क) Fok		ब) ਤ	Flok	
	2)	्र लोकांनी	लोकांसाठी लोक	,	ाठा ाठी तयार केलेल्या ग	ीतप्रकारास ——
		असे म्हप	_	,	0	
		अ) ध्रुपव		,	धमार गीत	
		क) लोव	त्रगीत	ভ)	ओवी गीत	
	3)	ऋग्वेद	मध्ये लोक या श	ब्दासाठी कोणता	शब्द प्रयुक्त केला अ	ाहे?
		अ) परि	लोकम्	ब)	देहिलोकम्	
		क) लोव	 कल्याण	ভ)	जनलोकम्	
	4)	लोकसंर्ग	ोतात कोणकोणल	या बाबींचा समावेः	रा होतो?	
	,	अ) लोव	त्रगी त	ब)	लोकवादय	
		क) लोव	o नृत्य	, ਵ)	यापैकी सर्व	
	5)	भारतीय	लोकसंगीत हे -	—— मुळे सुरक्षित	आहे.	
	,	अ) स्वर			व्यजनामुळे	
		,	गरणा <u>म</u> ुळे	ੱ ਭ)	शहरांमुळे	
	6)	लोकसंर्ग	ोता मध्ये मख्यतः	हा किती तत्वांचा	समावेश होतो?	
	-,		,लय,भाषा	ৰ)	भाव,तान,स्वर	
			न,वादन	ਭ)	यापैकी नाही	
	7)			— कडून मानर्ल	ो जाते.	
	- /		···. रांकडून	ब)	माणसाकडून	
			कडून	 ਫ)	निसर्गाकडून निसर्गाकडून	
		, , , , , , , , , , , , ,	<i>c</i> .	3)		

लौकिक गीत यामध्ये --- गीतप्रकाराचा समावेश होतो.

ब) निसर्गगीते

ड) नृत्यगीते

8)

अ) लावणी पोवाडा

क) धार्मिक गीते

9)	प्राचीन काळातील राजांची स्तुती कर् गीतप्रकार म्हणजे —— होय.	रण्यास	ाठी वापरला जाणारा लोकसंगीतातील	
	अ) लावणी क) भजन	,	पोवड़ा किर्तन	
10)	लावणी या प्रकारासाठी वापरले जाण	गारे वा	दय —— आहेत.	
-	अ) तबला	ब)	पखवाज	
	क) ढोलकी	ਫ)	नगाड़ा	
11)	निसर्ग गीतांमध्ये —— चे वर्णन केर	नेले अ	ासतात.	
,	अ) पावसाचे	ब)	जंगलात घडणाऱ्या हालचाली	
	क) पक्षाचे आवाज	ਫ)	पाण्याचे	
12)	स्त्रीगीते या मध्ये हा प्रकार उ	गतिशय	। मुक्तपणे वापरला जातो.	
,	अ) श्रमगीते		संस्कार गीते	
	क) अंगाई गीते	<i>ਭ</i>)	ओवी गीते	
13)	मुलाला निजवण्यासाठी आई ——	या गी	तांचा वापर करत.	
,	अ) श्रमगीते		अंगाई गीते	
	क) ओवी गीते	ਭ)	संस्कार गीते	
14)	जुन्या रितीभातीचे वर्णन ज्या गीतांम	ध्ये के	ले जाते त्यास —— असे म्हणतात.	
,	अ) बालगीते		श्रमगीते	
	क) संस्कार गीते	,	ओवीगीते	
15)	कोणतेही काम करताना अनुकुल वा जातो.	टावे य	ांसाठी —— या गीतांचा वापर केला	
	अ) श्रमगीते	ब)	बालगीते	
	क) ओवगीते	ਫ)	स्त्रीगीते	
16)	''काळया मातीत मातीत टिफण चाल आहे.	ाते' हे	प्रसिध्द गीत —— म्हणून प्रचलित	
	अ) श्रमगीत	ब)	शेतकरी गीत	
	क) संस्कारगीत	ਫ)	ओवीगीत	
खार्ल अ)	ोलपैकी प्रश्नांची थोडक्यात उत्तरे लिह ओवगीत कशासाठी गातात हे स्पष्ट	-	ाणतेही चार)	16
ज) ब)	भारुड या गीतप्रकारा विषयी थोडक्य		हिती सांगा	
_{.)} क)	लोकसंगीत म्हणजे काय थोडक्यात			
_	लावणी या गीतप्रकाराचे वर्णन मोकव			
ड) इ) ई)	पोवड़ा या प्रकाराचे वर्णन तुमच्या श		करा.	
ई)	श्रमगीता विषयी थोडक्यात माहिती	सांगा.		

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Я.3	खालीलपैकी	प्रश्नाचा	उत्तर लिह	. (काणतहा	दान

16

- **अ)** गोंधळ या गीतप्रकारांविषयी सविस्तर चर्चा करा.
- ब) जागरण गोंधळातील दिवटया नावाचं पात्र आहे त्याची कामगिरी स्पष्ट करा.
- क) निसर्गगीतं आणि स्त्रीगीते या गीतांबद्दल माहिती लिहा.
- ड) धार्मिक गीते म्हणजे काय ते सांगून त्यावर चर्चात्मक टिप्पणी करा.

प्र.4 खालीलपैकी प्रश्नांची उत्तरे लिहा. (कोणताही एक) लोकसंगीताचे भविष्य यांवर तुमचे मत स्पष्ट करा.

16

किंवा

लोकसंगीताचे वैशिष्टये लिहा.

प्र.5 'शास्त्रीय संगीताचा पाया लोकसंगीतावर उभारलेला आहे'. हे वाक्य सविस्तर पणे स्पष्ट 16 करा आणि यावर तुमचे विचार मांडा.

	3L	ו-טח-ו	19
Seat No.		Set	Р
N	I.A. (Tabla / Pakhavaj) (Semester - III) (New) (CBCS) Exan Oct/Nov-2022 Essay Writing - I	nination:	
Time:		Max. Marks	: 80
प्र.1 र 1	ोग्य पर्याय निवडा) खेमटा तालाच्या मात्रा —— आहेत. अ) ९ ब) ८ क) ४ ड) ६		16
2) अजराडा घराण्याचे संस्थापक —— आहेत. अ) हस्सु खाँ व मोदु खाँ ब) बाचा मिच्र व लाले खाँ क) मीरू खाँ कल्लु खाँ ड) मसीन खाँ व रजा खाँ		
3) उ झाकीर हुसेन यांना पद्मश्री पुरस्कार इ.स —— मध्ये प्राप्त झाला. अ) 1986 ब) 1987 क) 1988 ड) 1989		
4) ताल दादरा चा काल कितव्या मात्रेवर आहे? अ) 3 ब) 4 क) 5 ड) 6		
5) प्रामुख्याने —— घराण्याच्या तबलावादनामध्ये भगवंतांच्या स्तुतीचे बोल (स्तुतीपरन) वाजवले जातात. अ) दिल्ली ब) अजराडा क) बनारस ड) यांपैकी नाही		
6) खालीलपैकी 16 मात्रेचा ताल कोणता? अ) दादरा ब) खेमटा क) केरवा ड) तीनताल		
7) पं. जसराज —— या घराण्याचे गायक होते. अ) मेवाती ब) जयपूर क) ग्वाल्हेर ड) किराणा		
8) पं.रविशंकर यांना 'भारतरत्न' —— साली प्रदान झाला. अ) 1999 - ब) 1998 क) 1997 - ड) 1996		
g			

	10)	भारतरत्न लता मंगेशकर यांचा जन्म		•	
				28 जुलै 1929 28 सप्टेंबर 1929	
	11)	पं. किशन महाराज —— या घराण्य	,		
	11)	अ) दिल्ली	ब)		
		क) अजराडा	<i>ਢ</i>)		
	12)	रूपक तालाचा काल कितव्या मात्रेवर	र आहे	?	
		अ) 1	ब)		
	,	क) 3	ਫ) `		
	13)	तबला वादनाचा 'आद्य' घराणा म्हणुन		-	
		अ) दिल्ली क) लखनऊ	^ष) ड)	पंजाब अजराडा	
	14)	खालीलपैकी ६ मात्रेचे ताल कोणते?	٥)		
	17)		ब)	रूपक—केरवा	
		क) दादरा—खेमटा		यांपैकी नाही	
	15)	तीनतालाचे एकूण खंड किती?			
		अ) 2 \	ब) —\		
	,	क) 4	ड) ੍		
	16)	'धागे नती नक धीन' हे —— या त अ) रूपक		बाल आहत. तीन ताल	
		क) दादरा	_{ष)} ड)		
	_		,		
ਸ਼.2		लिहा (६ पैकी ४)			16
		ताल दादरा व ताल खेमटा या दोन बनारस घराण्याचा प्रचार व प्रसार	didi.	नंघाल साम्य व फरक स्पष्ट करा.	
	,	पं. जसराज यांची गायन शैली			
	,	पंजाब घराण्याची वादनशैली			
		ताल केरवा व तीनतालाचा बोलयुक्त			
	<i>ছ)</i>	पं. भीमसेन जोशी यांची गायकी			
Я.3	दिर्घो	त्तरी प्रश्न (4 पैकी 2)			16
	अ)	भारतरत्न लता मंगेशकर यांचा जीवन	नकार्य	परिचय (जन्म, बालपण, शिक्षण,	
	- -1\	योगदान, पुरस्कार इ.)	,) , , ,		
	,	दिल्ली घराण्याची वादनशैली बाबत १ खालील मात्रांचे मात्रा, खंड, विभाग,	_	_	
	")	ताल–तीनताल	-11	,	
		ताल-केरवा			
	,	ताल—खेमटा भारतरत्न पं. रविशंकर यांची वादनशै	0		
	- '	0 11 1 1 1 1 1 1 1 1 1 		· 	

प्र.4	दिर्घोत्तरी	प्रश्न	(2	पैकी	1)
/I. I	1 7 -11 / /1 /1	<i>~</i> <i>~</i>	\ -	1 1 1	• 4	,

16

अ) तबला वादनातील कोणत्याही दोन घराण्याचे तुलनात्मक अध्ययन करा. किंवा

ब) पं. जसराज यांचे जीवनकार्य लिहा.

प्र.5 दिर्घोत्तरी प्रश्न

16

उ. बिस्मिल्ला खाँ यांचे जीवनकार्य लिहा.

किंवा

तबला वादनातील बनारस घराण्याविषयी सविस्तर माहिती लिहा.

Seat No.									Set	Р
M.A	۱. (I	Orama) (Sem				-	Examination: C	oct/Nov-202	22
Time:	11:(:—	00 AM T सर्व प्रश्न	ay, 17-02 o 02:00 न अनिवा डील अंव	2-2022 PM र्य आहे.		: Natya । वेतात.	rarai	npara	Max. Marks	s: 80
Я.1 З	अ)	1) भ अ क) विषाम्) मंथन	ो लिहित ाृत		– हे पहित	ब) ड)	अमृत मंथन अमृत		04
		্ ক 3) भ अ) केसरी) सारीप्	ोपुत्र प्रक पुत्र प्रकर या नाट्र त	ज्रण एप		ब) ड) नाटक ब)	वासुकीपुत्र प्रकरण रामपुत्र प्रकरण ——— असू नये. शोकांत मिश्र		
		4) र	, iस्कृत न) विचिद्	ाटकाच्य	ा सादरी	करणाचे त	ন্ন —			
6	য়)	1) न 2) भ 3) वे	रत प्रणी शभूषा अ	त्रामध्ये ः त रंगमं [:] ग्रहार्य अ	वाचे प्रक भिनयाच	वे एकूण च ार 10 आ ा भागा अ ाभूमीच्या !	हेत. ाहे.	गर सांगितले आहेत. त्या.		04
7	क)	1) ਪ੍ਰ 2) ਸ 3) ਕ	जोडया ज् र्वरंग वृत्ती जरण त्ती	नुळवा.			अ) ब) क) ड)	अवतरण अवंती लीन कैशिकी		04
		(A) (B) (C) (D)	(a) (ii) (i) (iii) (iv)	(b) (i) (ii) (iv) (iii)	(c) (iv) (iii) (i) (ii)	(d) (iii) (iv) (ii) (i)				

		SLR-HD-121
	ड) योग्य की अयोग्य ओळखा. 1) अंगिक—मुद्रा 2) सात्त्विक—गायन 3) वाचिक—संतुलित अवस्था 4) आहार्य—रचना	04
Я.2	टिपा लिहा 1) मालविकाग्नीमित्र 2) अभिज्ञान शाकुंतलम 3) उत्तररामचरित 4) दूतघटोत्कच 5) स्वप्नवासवदत्ता 6) मृच्छकटीकम	16
Я.3	खालीलपैकी कोणत्याही दोन प्रश्नांची उत्तरे लिहा. 1) भरत प्रणीत नाट्यगृहांची रचना मांडा 2) वृत्ती म्हणजे काय हे सांगून त्यांचे प्रकार कोणते ते लिहा. 3) कालीदासांची नाट्यसृष्टी यावर सविस्तर लिहा. 4) भवभूती बद्दल माहिती लिहा.	16
Я.4	खालीलपैकी कोणत्याही एका प्रश्नाचे दीर्घ उत्तर लिहा. 1) संस्कृत रंगभूमीच्या सुवर्णकाळाचे वर्णन करा. 2) भारतीय पारंपारिक रंगभूमीच्या ऱ्हासाची कारणे सांगा.	16
प्र.5	संस्कृत नाट्य परंपरेचा सविस्तर आढावा घ्या.	16

Seat No.		Set P
M.A	Oc	emester - III) (New) (CBCS) Examination: ct/Nov-2022
Time:	Date: Friday, 17-02-2023 11:00 AM To 02:00 PM : 1) सर्व प्रश्न अनिवार्य आहेत.	Max. Marks: 80
प्र.1 र 1	,	
	भूमिका केली आहे. अ) माम्मूट्टी क) वेंकटेश	ब) रजनीकांत ड) यापैकी नाही
2) चिल्ड्रन्स फिल्म सोसायटी, इंडि अ) पुणे क) हैद्राबाद	या (CFSI) —— येथे स्थित आहे. ब) मुंबई ड) दिल्ली
3) भारतीय राष्ट्रीय चित्रपट विकार अ) 1975 क) 1955	न महामंडळ ची स्थापना —— रोजी झाली. ब) 1966 ड) यापैकी नाही
4) अपर्णा सेन यांनी —— या चिट अ) ट्रॉफी क) आरंभ	त्रपटाद्वारे पदार्पण केले. ब) तीन कन्या ड) यापैकी नाही
5	,	
6	•	र्णी यांचा पहिला प्रदर्शित झालेला चित्रपट आहे. ब) वळू ड) यापैकी नाही
7) —— हे संगीत दिग्दर्शक सुवण अ) एस.डी.बर्मन क) शंकर जयकिशन	,
8	,	,

	9)	संहितमध्ये व्हीएफएक्स म्हणजे —— अ) एक्सक्ट्रीम क्लोज शॉट क) स्पेशियल इफ्फेक्ट	ब)		
	10)	ही अभिनेता चित्रपटातील भूमित् तपासण्यासाठी चित्रित केलेली चाचर्ण अ) स्क्रिप्ट टेस्ट क) व्हिज्युअल टेस्ट	ो आहे ब)		
	11)	कट, कॉपी आणि पेस्ट ही मूलभूत स अ)ध्वनी संकलन क)ध्वनी चित्रीकरण	ৰ)	ची आहेत. ध्वनी रेकॉर्डिंग ध्वनी डबिंग	
	12)	शॉट ही संज्ञा —— मध्ये वापरतात. अ) व्हॉइस रेकॉर्डिंग क) चित्रीकरण	,	व्हॉइस एडिटिंग डबिंग	
	13)	अनु मलिक हे —— आहेत. अ) नृत्य दिग्दर्शक क) कला दिग्दर्शक	,	संगीत दिग्दर्शक यापैकी नाही	
	14)	प्रसिध्द कला दिग्दर्शक आहेत. अ) सुहास कामत क) विनोद शर्मा	,	नितीन देसाई यापैकी नाही	
	15)	हयाचा वेशभूषेमध्ये समावेश हो अ) पात्र क) कथा	ब)	ही. प्रसंग यापैकी नाही	
	16)	संवादांचे पुन्हा रेकॉर्डिंग —— म्हणून अ) डबिंग क) री—डायलॉग		खले जाते. व्हॉइस ओव्हर यापैकी नाही	
Я.2	खाली अ) ब) क) ड) इ)	लपैकी चार प्रश्नांची थोडक्यात उत्तरे वि अमोल पालेकर यांच्यावरती संक्षिप्त वि बॉलिवूड विषयी लिहा. 'व्ही.शांताराम यांचे भारतीय चित्रपटसृ तरुणावरती पडणाऱ्या चित्रपटांच्या प्रश् चित्रपटाची भाषा यावरती संक्षिप्त टीप् 'फिल्म अँड टेलिव्हिजन इन्स्टिटयूट'	टेपा ि ष्टीती गावार्च । लिह	ल योगदान' या विषयावर लिहा. ो चर्चा करा. T.	16
Я.3	खाली अ) ब) क) ड)	ल प्रश्नांची उत्तरे लिहा. (कोणतेही दोन चित्रपटांमध्ये गाण्यांचे महत्व लिहा. चित्रपट म्हणजे काय? अपर्णा सेन यांचे सविस्तर जीवनचरित्र बिमल रॉय यांच्या चित्रपटांची वैशिष्ट्	त्र लिह		16

S	LR-	HD)-1	23

Я.4	खालील प्रश्नांची उत्तरे लिहा. (कोणताही एक)	16
	'मराठी चित्रपटांचा इतिहास' या विषयावर लेख लिहा.	
	किंवा	
	'गुरु दत्त' यांचे जीवन आणि कारकीर्द याविषयी चर्चा करा.	

प्र.5 चित्रपट समीक्षा म्हणजे काय? त्याचे विविध घटक स्पष्ट करा.

Seat	Sat	D
No.	Set	

M.A. (Mass Communication) (Semester - III) (New) (CBCS) Examination:

141.2	M. (IVI	Oct/Nov	/-202	2	JII.
		Film St	udie	S	
-		e: Friday, 17-02-2023 0 AM To 02:00 PM		Max. Mark	s: 70
Instr	uctio	ns: 1) All questions are compulsory. 2) Figures to the right indicate ful	l mar	ks.	
Q.1	Cho (1)	ose the correct alternatives from the has acted in a film based of a) Mammooty c) Venkatesh	-	tions. life of Dr. Babasaheb Ambedkar. Rajanikant None of these	16
	2)	Children's Film Society, India (CFS) a) Pune c) Hyderabad	l) bas b) d)	ed in Mumbai Delhi	
	3)	The National Film Development Co in year. a) 1975 c) 1955	rpora b) d)	tion of India (NFDC) was founded 1966 None of these	
	4)	Aparna Sen made her debut with that a) Trophy c) Arambh	e film b) d)	Teen Kanya None of these	
	5)	Vishal Bhardwaj is not a) Director c) Music Composer	b) d)	Screen Writer None of these	
	6)	is the first released movie of a) Mumbai-Pune c) Vihir	f Ume b) d)	esh Kulkarni. Valu None of these	
	7)	music director was not part a) S.D.Burman c) Shankar-Jaikishan			
	8)	actress was not part of gold a) Nargis c) Madhubhala	den er b) d)	a. Nutan None of these	
	9)	In a script, VFX stands for a) Extreme close shot c) Special effects	b) d)	Standard shot Cut	
	10)	is a filmed test to ascertain role. a) Script Test c) Visual Test	whetl b) d)	ner an actor is suitable for a film Screen Test None of these	

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	11)	a) Sound Editingc) Sound Shooting	oois d b) d)	of Sound Recording Sound Dubbing	
	12)	Shot term used in a) Voice Recording c) Shooting	b) d)	Voice Editing Dubbing	
	13)	Anu Malik is a) Dance Director c) Art Director	b) d)	Music Director None of these	
	14)	is a famous art director. a) Suhas Kamat c) Vinod Sharma	b) d)	Nitin Desai None of these	
	15)	not includes in the movie dra	apery.		
		a) Characterc) Story	b) d)	Situation None of these	
	16)	Re-recording of dialogues is known a) Daubingc) Re-dialogues	as b) d)	Voice Over None of these	
Q.2	a) b) c) d) e)	wer the following questions. (Any F Write short note on 'Amol Palekar'. Write about Bollywood. Write on topic 'V. Shantaram's Contr Discuss the impact of cinema on you Write short note on 'Language of cine Write on the topic 'Film and Television	ibution ith. ema'.		16
Q.3	a) b) c)	wer the following questions. (Any Twite down importance songs in cine What is the Cinema? Write a detailed biography of Aparna What are the characteristics of Bimal	ema. Sen.	s cinema?	16
Q.4	'Write	wer the following questions. (Any 0 e an article on the 'History of Marathi OF	Films ₹	' .	16
	Discu	uss the life and career of 'Guru Dutta'	-		
Q.5	What	t is film review? Explain its elements	and g	ive one example.	16

Seat	Sat	D
No.	Set	P

	N	1.Com	•	(New) (CBCS	-	mination: Oct/Nov-	2022
-		-	, 17-02-2023 02:00 PM	3	-	1	Max. Marks: 80
Instru	uction			re compulsory. right indicate ful	l marks		
Q.1	Choo 1)	DIC sta a) Dis b) Dis c) Dis	ands forsassembled strict Industri strict Industri	rnatives from th Industries Cente es Collaboration al Centers ustries Centers	rs	ons.	16
	2)	a) The b) The c) The	e generation e evolution c e opposite o			as	
	3)	a) Lo		g ability		technological developn Low mobility Lack of Education	nents?
	4)	a numb		 ors	ntreprei b) d)	neurs the government h financial intermediaries Financial institutions	
	5)	NSIC (la) 198 c) 198	53	all industries corp	ooration b) d)	n) 1955 1959	
	6)		ity isp aginative manticism	process.	b) d)	Productive Knowledge	
	7)	a) Dro	attitude is on one bian	e of the importa	nt probl b) d)	ems of a Entrep Adoptive Women	oreneur.
	8)	from a a) Ve		y capital to obtai		r who makes risk invest n rate of return on inves Entrepreneur Buyer	
	9)	a) Te	_Entreprene ls innovated chnical luced		duce ne b) d)	ew changes nor adopt no Fabian Business	∍w
	10)	a) Aff	of the followi iliation Need hievement N		d not be b) d)	included in? Power Need Need for independence	e

11)	 The third phase of the Project Life Cycle is a) Development the business plan b) Determining the resource required c) Identification of a need, problem, or opportunity d) Managing the enterprise 	
12)	of use of resources and considers Market Imperfections as opportunitie entrepreneurial activities. a) Innovation b) High Achievement	•
13)	c) X-Efficiency d) Profit According to Everette Hagen, 'withdrawal of status respect' leads to following behavioural patterns except one a) Retreatist b) Ritualist c) Reformist d) Rationalization	
14)	Which of these is not a category of external forces that affects a busine a) Political force b) Technological forces c) Economic forces d) Socio-economic forces	ss?
15)	 Which of these is also known as corporate venturing? a) Entrepreneurship b) Mergers c) Acquisition d) None of these 	
16)	 The process of Entrepreneurship is divided into two parts & they are a) Idea Generation and Feasibility study b) Innovation generation and Distribution Channel c) Creativity and Development d) Profit and Economic Development 	·
	nswer the following. Elements of business plan Innovation Theory by Schumpeter	16
Ans a) b)	Concept of Women entrepreneurship and challenges faced by them. Difference between creativity, invention and innovation.	16
Ans a)	nswer the following questions. (Any One) Explain the influence of external factors on entrepreneurship developments OR	16 nt.
b)		

Q.2

Q.3

Q.4

Mr. Sidhu was driven by the sheer passion for innovation and for selling. He strongly believe selling is all about creativity. Born in Ludhiana, Punjab and raised in Chandigarh, completed initial schooling at Shivalik Public School and DAV college, Chandigarh. After graduating from Bangalore University in the field of Mechanical Engineering in 1989, started career at Eureka Forbes and moved into sales and marketing roles at HCL Technologies, Hyderabad and Wipro Info Tech. Bangalore. He worked for Wipro for a couple of years. Based on success at Wipro, my peers suggested that I should start his own business. Though initially excited, he did not know from where to start and discussed the idea with a few colleagues and friends. His friends were delighted and immediately proposed the name of the firm 'Apara' and designed the logo. Though the name and logo were in place, he did not have the required funds to start a company. To start Apara and pursue his passion, he sold everything including jewellery, motorbike and other incidental assets and finally managed to raise a little money. Apara was started in 1992 in a small, humble way, housed in his friend's garage and then moved into an apartment.

Apara's line of business in 1992, was delivering UNIX services to semi-conductor firm, idea was relatively new to the Indian market and very few companies were delivering such services. After a couple of years of struggle in selling UNIX services, Apara had attained a market leadership position in delivering UNIX services to semiconductor firms by 1995. Even as Apara reached its market leadership position, initially, while the semiconductor industry was receptive to Apara, because of the quality of services delivered earlier. There Mr. Sidhu wanted to enter in core IT infrastructure, this was the basis for Apara's foray into the networking and security business in the year 1998. Being a pure IT infrastructure solutions provider, in 2006 we forayed into delivering professional services globally and delivering remote management services in 2007.

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- a) Analyze the case.
- b) Discuss problems faced by Mr. Sidhu while starting Apara.
- c) Which were the entrepreneurial qualities you find in Mr. Sidhu?

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Seat	Cat	D
No.	Set	F

	IVI	CA (S	Fundamental of V	•		
			day, 17-02-2023 To 02:00 PM		Max. Marks	: 80
Insti	ructio	2) Question no. 1 and 2 are compo) Attempt any three questions fro) Figure to right indicate full mark	m Q.		
Q.1	A)	Mult 1)	iple choice questions. The document's title, document section. a) <headi> c) <head></head></headi>	scrip b) d)	ots are all contained in the <start head=""> <ihead></ihead></start>	10
		2)	When saving a file you s a) Document c) HTML	hould b) d)		
		3)		speci b)	erners-Lee, who was then working alist at a Swiss research institute. HTML and HTTP TCP/IP	
		4)	The paragraph tag () is used a) Paragraphs c) Content	d to d b) d)	lelimit entire of text. Lines Body	
		5)	Although there are predewill only find yourself using threa) Seven c) Four		-	
		6)	The preformatted tag car space literally and not to conder a) <pre></pre>			
		7)			to as the of the page, this see in the main browser window. Background Website	
		8)	The attribute is used to r should mentioned in source coda) aref c) href		ct to webpage, where the link Linkref arefere	
		9)	The attribute, indicating to a) Src c) Irc	the so b) d)	ource of the image. Drc Krc	

		10) are used to create online forms and surveys with multiple								
			-	estion types.	C	h)	Google forms			
			,	Google document Google slides	5	b) d)	Google forms Google drive			
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		1)		e align attribute is s	•	-				
		2)		•	•	ice fo	r files online and it's very similar			
		2)		he hard drive on co	•	a dira	othy offer the enemina /table> tag			
		3) 4)		ogle Slide is simila			ctly after the opening tag.			
		5)		•			characters between them are			
		σ,		own as a tag.	o arra arr	00	o charactere between them are			
		6)		_	use a se	quen	ce of numbers or letters instead			
			of b	oullet points.						
Q.2	Δn	owar th	sa fa	ollowing				16		
Q.Z				ebsite?				10		
	•			ou mean by HTML	?					
	•		•	Google applications		ation				
	d)	What	do y	ou mean by WWW	?					
Q.3	Δno	swar th	no fo	Mowing				16		
Q. 5	a)	Answer the following. a) State and explain in detail five Golden rules of Web in Web Designing and								
	,	Develo								
	b)				HTML for	ms a	nd its control with suitable			
		examp	ole.							
0.4	Δng	Answer the following.								
α		a) What is Internet? Explain in detail various application of Internet.								
	b)			explain types of H			• •			
	_		_							
Q.5				ollowing.		1	a Canala alida and ita wasiawa	16		
	a)	applica			in now to	creat	e Google slide and its various			
	b)			detail HTML Table	tag with	suital	hle example			
	ω,	Dioodo		dotal TTWE Table	rag war	ouna	ole example.			
Q.6	Ans	Answer the following.								
	a)						with suitable example.			
	b)	Explai	n in	detail working with	text using	g HTN	ML Font tag and its attribute.			
Q.7	Answer the following.									
~ .	a) What is mean by Google Site? Discuss in detail components of Google Site.									
	b)			, ,			ucture of HTML with suitable			
		examp	ole.							

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	N	M.B.A. (Sem - III) (New) (CBCS) Entrepreneurship		
		e: Friday, 17-02-2023 0 AM To 02:00 PM		Max. Marks: 80
Instr	uctio	ns: 1) All questions are compulsory. 2) Figures to the right indicate full	marks	S.
Q.1	Choo 1)	ose the correct alternatives from th DIC stands for a) Disassembled Industries Center b) District Industries Collaboration c) District Industrial Centers d) Developing Industries Centers	-	ons. 16
	2)	Innovation can best be defined as a) The generation of new ideas b) The evolution of new ideas c) The opposite of creativity d) The successful exploitation of new		
	3)	Why the majority of women are unava) a) Low-risk bearing ability c) need for achievement	b)	Low mobility
	4)	To provide financial assistance to en a number of a) financial advisors c) industrial estates	trepre b) d)	financial intermediaries
	5)	NSIC (National small industries corp a) 1953 c) 1957	oratio b) d)	n) 1955 1959
	6)	Creativity isprocess. a) Imaginative c) Romanticism	b) d)	Productive Knowledge
	7)	Social attitude is one of the important a) Drone c) Fabian	t prob b) d)	lems of a Entrepreneur. Adoptive Women
	8)	A is a professional money m from a pool of equity capital to obtain a) Venture capitalist c) Businessman		
	9)	Entrepreneurs neither introd methods innovated by buyers. a) Technical c) Induced	uce n b) d)	ew changes nor adopt new Fabian Business
	10)	Which of the following factors would a) Affiliation Need c) Achievement Need	not be b) d)	e included in? Power Need Need for independence

11)	The third phase of the Project Life Cycle is a) Development the business plan b) Determining the resource required c) Identification of a need, problem, or opportunity d) Managing the enterprise						
12)	The theory of entrepreneurship is based on the degree of inefficiency of use of resources and considers Market Imperfections as opportunities for entrepreneurial activities. a) Innovation						
13)	According to Everette Hagen, 'withdrawal of status respect' leads to following behavioural patterns except one a) Retreatist b) Ritualist c) Reformist d) Rationalization						
14)	Which of these is not a category of external forces that affects a business? a) Political force b) Technological forces c) Economic forces d) Socio-economic forces						
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	swer the following. Elements of business plan Innovation Theory by Schumpeter	16					
Ans a) b)	, , ,						
Ans a)	Answer the following questions. (Any One) a) Explain the influence of external factors on entrepreneurship development. OR						
b)	Explain the concept of entrepreneur and mention the skills and types of entrepreneur.						

Q.2

Q.3

Q.4

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