Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester – I) (New) (CBCS) Examination:

		March/ ENGLISH (C Literary Vo		-SORY)	
-		e: Tuesday, 18-07-2023 0 AM To 11:00 AM		Max. Mar	ks: 40
Instr	uctior	ns: 1) All questions are compulsor 2) Figures to the right indicate	-	S.	
Q.1	Multi 1)	iple choice questions: Mahatma Gandhi said, "Within te and bone. a) Gaya c) Delhi	n miles ra b) d)	adius of you will see skin Puri Mumbai	08
	2)	Payeng's Forest got disclosed, was accidentally. a) dogs c) elephants	rhen a hei b) d)	rd of wild entered into it monkeys boars	
	3)	In the city the grandmother of Kho- a) spinning wheel c) horses	ushwant (b) d)	Singh kept herself busy with the cows neighbours	
	4)	Tagore emphasized that a man n a) intolerance c) hatred	b) d)	to conquer one's freedom. patience haste	
	5)	Love came to asking for a) Fantasy c) Fame	the queer b) d)	n of the flowers. Flora Futura	
	6)	When the father went to his son's a) playing c) dancing	s room, th b) d)	e son was slumbering painting	
	7)	The word 'protect' requires a) -ly c) -ion	as a su b) d)	uffix to form a meaningful word. -ship -ful	
	8)	' <u>He</u> went to his father's office yes sentence is a) a verb c) a pronoun	terday.' T b) d)	he underlined word in the an adjective a modal	

Q.2	Ans a) b) c) d) e) f)	What tactics were used by Mahatma Gandhi for making Khadi popular? How did Jadav Payeng begin his work at Maioli Island? Describe the tragic end of Khushwant Singh's "The Portrait of a Lady". How did Rabindranath Tagore want God to help him? Describe the process which gave birth to the Lotus. What is the symbolic meaning of the title "The Toys" of the poem by Coventry Patmore?	12
Q.3	a)	Write a detailed note on the process of communication. OR	10
	b)	What are the seven features of effective communication?	
Q.4	Defi	ne intrapersonal skills and write a detailed note on them.	10

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination:

ļ	D.JC.	March/April-20	
		Principles of Entrepreneurship	
•		te: Wednesday, 19-07-2023 00 AM To 11:00 AM	Max. Marks: 40
Instr	ructio	ons: 1) All questions are compulsory. 2) Draw neat diagrams and give equations 3) Figures to the right indicate full mark 4) Use of logarithmic tables and calculate	S.
Q.1	Sele	ect the correct alternatives from the follow	wing and rewrite the sentence. 08
	1)	The first National conference of women er a) 1980 b) c) 1991 d)	ntrepreneurship was held in 1981 2001
	2)	Industries are used to reduce the dincome. a) Large b) c) Small d)	isparity between rural and urban Urban Rural
	3)	, ,	ship is Social Development All of the above
	4)	An individual who starts, creates, and marcalled a) a leader b) c) a professional d)	nages a new business can be a manager an entrepreneur
	5)	To provide financial assistance to entrepre up a number of a) financial advisors b) c) Industrial estates d)	financial intermediaries financial institutions
	6)	EDP meant for developing a) Professional skill b) c) Personal qualities c)	Entrepreneurial motive Entrepreneurial monitoring
	7)	District industries centers are located in _ a) Each District b) c) Only in selected districts c)	Each State Only in selected states
	8)	Innovation can based be defined as a) the generation of new idea b) the evolution of new idea c) The opposite of creativity d) the successful exploitation of new ide	

			SLR-QD-2
Q.2	a) [b) [c) [d) [e) [er any Four of the following. Define Financial Planning Define Entrepreneurship Define Planning Define Rural Entrepreneurship Define LLP Define Industry	08
Q.3	a) 7 b) 1	short notes on any Two of the following. Types of Entrepreneurships Managerial Vs. Entrepreneurial approach Functions of SIDBI	08
Q.4	a) E	er any Two of the following. Explain objectives of the Indian institute of entrepreneurship. Explain types of business organization. Explain role of SHG in women entrepreneurship development.	08
Q.5	a) [er any One of the following. Define entrepreneurship. Explain barriers to entrepreneurship. Define DIC. Explain role and functions of DIC.	08

Seat]			Г	
No.	•					Set	Р
	B.Sc	c. (Entrepreneu			New) (CBCS) Examination	on:	
	Fun	damental of Ed		/April-202 d Accoun	ಚ tancy (Paper – II) (EN110	03)	
	& Dat	e: Thursday, 20-07 0 AM To 11:00 AN	'-2023		Max. N	-	: 40
Instr	uctio	Figures to th		e equations full marks.	wherever necessary.		
Q.1	Mult	iple choice quest	ions:				08
	1)	Giffen goods are a) superior c) prestigious	_	ds. b) d)	quality		
	2)	A firm under	competition	has a regul	lar tendency to show excess		
	,	capacity.	·	· ·	•		
		a) oligopoly		b)	•		
		c) monopolis		d)	imperfect		
	3)	Demand is a funda	ction of	b)	firm		
		a) price c) product		d)	cost		
	4)	The word macro	in macro econo	,	study of .		
	,	a) developme		b)	income		
		c) price		d)	growth		
	5)	Accountancy sta	rts where		Trading A/a		
		a) Journalc) Balance S	neet	b) d)	Trading A/c Book-Keeping		
	6)	The left hand sid		,	, ,		
	Ο,	a) Debit	o or arradodam	b)	Basic		
		c) Credit		d)	Main		
	7)	On receipt of che	eque acc				
		a) Cash c) Party		b) d)	Bank Expense		
	٥١	,	sinal book of acc	,	Lxperise		
	8)	a) Ledger	cipal book of acc	b)	Cash book		
		c) Journal		ď)	Pass Book		
0.2	Dofi	na tha aanaant ar	vy form				00
Q.2	a)	ne the concept ar Law of demand	iy iour.				80
	b)	Business Econom	ics				
	q)	Perfect competition	n				
	d) e)	Ledger Balance Sheet					
	f)	Nominal A/c Rule					

80

Q.3	Writa) b) c)	Types of Elasticity demand. Scope of Accounting. Journalise the following entries. 1) Paid cash into bank ₹ 15000. 2) Paid telephone bill, including telephone rent by cheque ₹ 1200. 3) Cash sales ₹ 3000.			
Q.4	Ans	wer any Two of the followi	ing.	08	
	a) Features of perfect competition.				
	b) Define supply rule in detail.				
	c)	Match the following Gr. A &			
	- /	Gr. A	Gr. B		
		1) Furniture	a) Not recorded in book of a/c		
		2) Capital	b) Book of original entry		
		3) Journal	c) Personal A/c		
		4) Trade discount	d) Real A/c		
Q.5	Ans	wer any one question.		08	
	a)	Explain the nature & scope	e of Business Economics.		
	b) What is mean by Trial Balance? & types of trial balance.				

						SLR-QI	D-4
Seat No.	t					Set	Р
E	3.Sc	. (Entrepreneu	rship) (Semeste March/Apı	•	(New) (CBCS) Exa 23	amination	•
		Fundamentals	of Inorganic Ch	emis	try (Paper - I) (EN	l1104)	
•		te: Friday, 21-07-20 00 AM To 11:00 AM				Max. Mark	s: 40
Instr	uctic	ons: 1) All question			_		
		3) Draw neat	he right indicate full diagrams and give e rithmic table and ca	equation	ons whenever necess	ary.	
Q.1	Mul	tiple choice ques	tions.				08
	1)	In qualitative ana	alysis of carbon and	hydro	gen, the organic com	pound	
		heated with a) NaCN	·	b)	CuO		
		c)́ KOH		ď)	AgX		
	2)		zation gives				
		a) ethyl benzec) Mesitylene	ne	b) d)	propyl benzene Benzene		
	3)	,	d with cold dilute alk	,			
	,	a) Diketeone		b)	2 moles of acid		
	4	c) Glycol		d)	none of these		
	4)	a) isolated die	s an example of ne	 b)	conjugated diene		
		c) cumulated		d)	none of these		
	5)	Benzene burns v					
		a) non sooty flc) green color	ame	b) d)	sooty flame none of these		
	6)	,	ed when the followi	,			
	,	a) Ethane		b)	Ethene		
	-\	c) Ethyne		d)	none of these		
	7)	Na- or k- salts of a) Kolbe	monocarboxylic aci	d are b)	used in metho Corey-House	d.	
		c) Wurtz		d)	none of these		
	8)	According to Hukaromatic if it con		anar, c	onjugated structure v	vill	
		a) $(4n) \pi$ elect		p)	$(2n + 2)\pi$ electro		
		c) $(4n+1) \pi \epsilon$	electron	d)	$(4n + 2) \pi$ electror	1	
Q.2	_	wer any four of the					80
	a) b)		of Lassaigne's test of preparation of but		e.		
	c)	Write the hydration	n reaction of isobute				
	d) e)	State and explain How mesitylene is	Huckel's rule. s prepared from pro	pvne?			
	f)		eare ethane from Ko				

Q.3	Write short notes on any two of the following.				
	a)	Detection of carbon and hydrogen in an organic compound			
	b)	Acidity of alkynes			
	c)	Corey-House reaction			
	ď)	Electrophilic reactions of alkene			

Q.4 Answer any Two of the following.

80

- a) In estimation of sulphur by Carius method 5.6 x 10⁻⁴ kg of an organic compound gave 6.17 xl0 ⁴kg of barium Sulphate. Find the percentage of sulphur in the compound.
- b) Explain the classification of dienes.
- **c)** What are the cycloalkanes? Explain how cyclopentanone is formed from Ca-salt of adipic acid.

Q.5 Answer any one of the following.

80

- a) What is meant by dehydrohalogenation? Explain E1 and E2 mechanism for dehydrohalogenation of lower alkyl halides.
- b) Explain in detail sulphonation of benzene with example.

Seat No.

Set P

B.Sc. (Semester - I) (New) (CBCS) Examination: March/April-2023 ENTREPRENEURSHIP

		Fun	damentals of	of Organic Che	mis	try Paper - II (EN11	105)
•			urday, 22-07-2 To 11:00 AM	023			Max. Marks: 40
Instr	uction	,	•	are compulsory. right indicate full r	nark	S.	
Q.1	Multi	-	choice questio eral formula of	ns. alkyne is			08
	,	a) c)	_	,	b) d)	$\begin{array}{c} C_nH_{2n+2} \\ C_nH_n \end{array}$	
	2)	Satu a) c)	rated hydrocar Substitution Elimination	bons mainly under	_	s reaction. Addition Polymerisation	
	3)	Pyrica) c)	dine is c Aliphatic Antiaromatic	ompound.	b) d)	N-containing aromatic Pseudo aromatic	
	4)	The a)	reactive specie No	es in nitration of be	nzer b)	ne is No_2^\oplus	
		c)	No_3^{\oplus}		d)	No ₃	
	5)	In La	assaigne's test	halogen in organio	of c	compound is precipitate	ed as
		a)	Agx ₂		b)	CCI ₄	
		c)	AgNo ₃		d)	AgX	
	6)	In co a) c)	ombustion meth AgNo₃ Na	nod an organic con	npou b) d)	ınd is heated with HNo₃ Cuo	
	7)	In w	urtz reaction al	kyl halide is heated	tiw b	h metal.	
		a) c)	Mg Na		b) d)		
	8)		ombustion meth pound is oxidiz		f hyc	Irogen. Hydrogen of or	ganic
		a) c)	H ₂ H ₂ 0	ca to	b) d)	CO ₂ a & b	
Q.2	a) b) c) d) e)	State State Defin Defin Draw	e aromatic com e molecular for neat labelled o	kel's rule. nzene with exampl npound with examp mula. Give its exa	ole. mple tion	e of C & H by combustion	08 n method.

Q.3	Writa) b) c)	te short notes on any two. Classification of dienes. Huckel's rule for naphthalene & anthracene. Determination of molecular weight by titration method.	08
Q.4	Ans a) b) c)	ewer any two of the following Explain acidity of alkynes. Estimate Sulphur by carious method. Explain sulphonaction of benzene.	80
Q.5	a)	Give two methods for preparation of alkane. What is the action of i) H ₂ /Ni ii) H Br cyclopropane How will you estimate halogen from organic compound by carious method? 1.85x10 ⁻⁴ kg of organic compound when treated with carious method gave 3.20x10 ⁻⁴ kg of AgBr calculate % of bromine in organic compound.	08

				SLR-QD-6
Seat No.	t			Set P
	B.S		March/April-20	New) (CBCS) Examination: 23 Paper - I) (EN1106)
-		e: Sunday, 23-07-2023 O AM To 11:00 AM		Max. Marks: 40
Instr	uctior	ns: 1) All questions are (2) Figures to the right 3) Draw neat labeled	nt indicate full marks	
Q.1	Choo 1)	Se the correct alternations First microscope was in a Alexander Fleming on Martinus Beijering	nvented by b)	Francesco Redi
	2)	The first vaccines for ra a) Alexander Fleming c) Louis Pasteur		vere invented by Sergei Winogradsky Paul Ehrlich
	3)	In the prokaryotes out a) Endoplasmic retice c) Cytoplasm		 Ribosome cell membrane
	4)	is an acellular n a) Alga c) Fungus	nicroorganism. b) d)	Virus Bacteria
	5)	Sodium taurocholate is a) Wilson and Blair Mc) Potato Dextrose a	fledium b)	
	6)	growth pattern r	microorganisms mo	stly remain in log phase

a) Urea hydrolysis

Citrate utilization by the microbe is observed in _____ test.

c) IMViC

b) Gelatin liquification

b) Synchronous

d) solid state

d) Glucose

In the bacterial cell counting method named 'SPC', 'P' stands for _____.

a) Plate c) Plaque

c) Diauxic

7)

8)

Power b)

d) Point

Answer any four of the following.

a) Continuous

80

- What is fermentation? a)
- What is pathogen? b)
- How bird's egg is good nutrient for microbial growth? c)
- What is pure microbial culture? d)
- What is microbial growth? e)
- f) What is gelatin hydrolysis?

Q.3	Write a) b) c)	e short notes on any two of the following. Robert Hook. Viruses IMViC test	08
Q.4	Ansv a) b) c)	wer any two of the following. Explain in brief bacterial growth curve. Describe in brief maintenance or preservation of microbes. Write in brief difference between Prokaryotic & Eukaryotic cell.	08
Q.5	Ansv a) b)	wer any one of the following. Explain in detail methods used to obtain pure culture. Describe in detail types of non-living culture media.	08

Seat	
No.	

B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination:

		(Ma	arch/April-2023	, (0200, 220	
		Bas	sic Techniques in I	Microbiology (P	aper – II) (EN1	107)
			nday, 24-07-2023 To 11:00 AM			Max. Marks: 40
Instr	uctio	2)	All questions are comp Figures to the right ind Draw neat labeled dia	dicate full marks.	ecessary.	
Q.1	Che	oose tl	ne correct alternative.			08
	1)		ria are observed by usi	•		
		a)	10 x	b)	40 x	
		c)	45 x	d)	100 x	
	2)		e media are sterilized b	-	A I	
		a)	Hot alive oven Osmotic pressure	p)	Autoclave	
		c)	•	d)	V.V radiations	
	3)		is an example of gase			
		a) c)	Ethylene oxide Ethanol	b) d)	lodine Phenol	
	4\	0)		•	i ilelloi	
	4)	a)	is an example of acidi Methylene	c stain. b)	Safranin	
		c)	Christof violet	d)	Eosin	
	5١	٥,	is acting as secondary	,		
	5)	a)	Crystal violet	y stain in Grain's St b)	Basic Fuchsin	
		c)	Iodine	d)	Alcohol	
	6)	In	dry heat is used for	,		
	J,	a)	Hot air oven	b)	Autoclave	
		c)	Tyndallization	ď)	Boiling	
	7)		is called as cold sterili	ization.		
	,	a)	Filtration	b)	Tyndallization	
		c)	Radiation	d)	Autoclaving	
	8)		lenses are used in ele	ectron microscope.		
	•	a)	Glass	b)	Fiber	
		c)	Metal	d)	Electromagnetic	;
Q.2	۸n	ewor a	ny four of the followin	20		08
Q.Z	a)		ny four of the followir developed Electron Mic	_		00
	b)		e sterilization.	поосоро.		
	c)		is meaning of incinerat	ion?		
	ď)		e Stains	_		
		What	are the antiseptic agen	its?	0	
	f)	vvnat	is function of mirror in o	compound microsco	ope?	

Q.3	Wr a) b) c)	rite short notes on any two of the following. Classification of stains. Application of Electron Microscope. Working of Hot air oven.	08
Q.4	An a) b) c)	swer any two of the following. Mechanism of Gram staining. Sterilization by phenol. Describe call wall staining.	08
Q.5	An a) b)	swer any one of the following. Describe in detail principle, working and applications of compound microscope. Describe in detail Sterilization by Antoclave.	08

Seat No.			Set	P	
5.0 (5.1	 _	 \ (0000) =	4.		

	3.SC.	(Entrepreneursnip) (Semester March/Apr	-		mination:
		Cell Biology (Pape			
•		e: Tuesday, 25-07-2023 0 AM To 11:00 AM			Max. Marks: 40
Instr	uctio	ns: 1) All questions are compulsory. 2) Draw neat diagrams and give ed 3) Figures to the right indicate full 4) Use of logarithmic table and cal (At. Wts.: H=1, C=12, O=16, N=1)	mark culate	s. or is allowed.	ry.
Q.1	Cho	ose the correct alternative and rewr Formation of cell plate starts at a) G ₂ phase	 b)	telophase	es. 08
	2)	c) prophase is the study of the cell, its type organelles.a) Cell Biologyc) Microbiology		S phase ructure, functions and i Biology Biotechnology	ts
	3)	In the plasma membrane, lipid moleca) alternate c) head parallel		are arranged in scattered series	
	4)	Microfilaments are composed of a) mosaic protein c) actin protein	 b) d)	tubulin protein chitin protein	
	5)	The cell organelles does not call a) Chloroplast c) Mitochondria		n DNA. Nucleus Lysosomes	
	6)	This is cancerous state of blood a) Leukemia c) Uremia	 b) d)	Proteinemia Chloremia	
	7)	Chromosome structure can be obser a) Anaphase c) Telophase	ved b b) d)	est during Metaphase Prophase	
	8)	The main function of nucleolus is a) rRNA synthesis c) ATP production	 b) d)	Protein synthesis DNA synthesis	
Q.2	Ansv a) b) c) d)	wer any four of the following. Draw structure of Chloroplast. Enlist functions of lysosome. Explain Cell membrane. Define microfilament.			08

- e) Define Carcinogenesis.
- f) What is Membrane permeability?

			SLR-QD-8
Q.3	Wri a) b) c)	te short notes on any two of the following. Define and explain General characteristics of cancer. Discuss structure and functions of Nucleus. Write a note on Fluid Mosaic Model.	08
Q.4	Ans a) b) c)	Explain Mitosis in detail. Write a note on Structure and function of cell membrane. Explain Structure and function of Endoplasmic Reticulum.	08
Q.5	Ans	swer any one of the following.	08

a) Write a detailed note on Meiosis.

b) Discuss in details about Mitochondria with its structure and functions.

		SLN-QD-3	,
Seat No.		Set P)
E	3.Sc.	Entrepreneurship) (Semester - I) (New) (CBCS) Examination: March/April-2023 Animal and Plant Physiology (Paper – II) (EN1109)	
_		Wednesday, 26-07-2023 Max. Marks: 40 AM To 11:00 AM)
Instru	uction	 1) All questions are compulsory. 2) Draw neat diagrams and give equations wherever necessary 3) Figures to the right indicate full marks. 4) Use of logarithmic table and calculator is allowed. 	
Q.1	Choo 1)	se the correct alternative from the given options. carries deoxygenated blood to the lungs from the right ventricle. a) Aorta b) Vena cava c) Pulmonary Artery d) Pulmonary vein	3
	2)	Which of the following enzyme in the human body start the digestion of proteins? a) Trypsin b) Lactase c) Amylase d) Pepsin	
	3)	Which of the following is an Endocrine gland in the human body? a) Salivary gland b) Digestive gland c) Pituitary gland d) Sweat gland	
	4)	n which part of the respiratory system, gaseous exchange takes place? a) Alveoli b) Larynx c) Pharynx d) Trachea	
	5)	How many ATP is required for the synthesis of 1 molecule of glucose? a) 19 b) 18 c) 24 d) 12	
	6)	Which of the following bacteria reduce nitrate in soil into nitrogen Denitrification bacteria)? a) Nitrobacter b) Thiobacillus b) Nitrococcus d) Nitrosomonas	
	7)	is a gaseous plant hormone a) Ethylene b) ABA c) NAA d) Cytokinin	
	8)	n which permanent tissue nucleus is absent a) Parenchyma b) Collenchyma c) Sclerenchyma d) All of the Above	
Q.2	Ansv a) b) c) d) e)	Per any four of the following Vrite plasma protein role Define Nervous co-ordination Vhat is Hematopoiesis Draw Primary structure of shoot Define Osmosis Vhat is the role of Gibberellins	3

			SLR-QD-9
Q.3	Wri a) b) c)	te short notes on any two of the following Write short note on working of heart. Describe digestion and mechanism of absorption. Define and note on N2 fixation.	08
Q.4	Ans a) b) c)	Swer any two of the following Describe Calvin cycle Write note on types of plant tissues Give role of pineal, thymus, thyroid, adrenal glands on the basis of hormone secretion.	08 of
Q.5	Ans a) b)	wer any one of the following Write detail on Mechanism of action of insulin and glucagon. Describe the two photo system and photophosphorylation.	08

Seat No.	Set	Р
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B.Sc. (Entrepreneurship) (Semester – I) (Old) (CBCS) Examination:

			ENGLISH (Literary Voyage		SORY)	
-			sday, 18-07-2023 o 12:00 PM	(Max. Marl	ks: 80
Instr	uction		All questions are compulsor Figure to right indicate full n			
Q.1	A)	Choo 1)	What percentage of the potential time of the essay? a) one - third c) one - tenth		given options. India was poverty stricken at the one - fourth one - sixth	10
		2)	What is the name of the rival a) Miling c) Malang	ver island w b) d)	here Payeng began his work? Mishing None of these	
		3)	The school was attached to a) a hospital and the nub) a public library and the c) a bigger school and to a temple and the pries	rses taught ne librarian t he teachers	aught them there taught them	
		4)	The poet is in state. Not pray to be sheltered from a doubtful c) a dangerous		hen he wrote this poem "Let Me s" a horrid a confident	
		5)	The conflict for the honour a) as the king of flowersc) the queen of flowers	b)	between rose and lily. the queen of nature the stateliest flower	
		6)	The boy in the poem "The a) the speaker of the poc) on adamant child	em b)	a motherless child a naughty little fellow	
		7)	The last component of any a) Receiving c) Acknowledging	/ successful b) d)	communication is Decoding Feedback	
		8)	Which of the following is a a) Mobile technology c) Courier service	communica b) d)		
		9)	Please wait me (Use appropriate prepositiona) for, in c) for, with		ete the sentence)	

		10) Green team ways (numbered) by Blue team [use suitable prefixes with the words] a) unnumbered b) out numbered c) disnumbered d) none of the Above	
	B)	 Answer the following questions in one sentence. 1) What is the relation between economics and religion in the essay 'The Birth of Khadi'? 2) In which year, Jadav Payeng got the country's highest civilian award 'Padma shri'? 3) What did the grandmother desire to do on her deathbed? 4) In which year Tagore's ground breaking work 'Gitanjali' was published? 5) Who sung praises for the flowers in the poem 'The Lotus'? 6) What kind of coins did the father discover? 	06
Q.2	Answ 1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12)	what is the importance of khadi in the context of the freedom struggle? How is environmental conservation crucial for the future? Draw, a character sketch of 'grandmother' in the essay 'The portrait of a Lady'? Discuss the poet's state of mind in the poem. 'Let Me Not pray to be sheltered from Dangers'? Write down the summary of poem "The Lotus". What is the significance of the toys in the poem? Explain Gandhi's talk on religion. Draw a character sketch of Jadav Payeng and his grand work. What is the significance of sparrows in the story "The Portrait of a Lady"? Write a note on the principles of effective communication. What is communication? Explain. Explain the soft skill 'Intrapersonal skill'	16
Q.3	A)	 Write down the answer of any two of the following. 1) How is untouchability related to the essay "The Birth of Khadi"? 2) What were some of the problems faced by Jadav? 3) What is the significance of the sparrows? 	10
	B)	Write short notes Write down the summary 'The Toys'.	06
Q.4	A)	 Write down the answers of any two of the following. 1) What is the receiver's role in the process of communication. 2) What are the barriers of communication breakdown? 3) Explain the concept of 'Intrapersonal skills'. 	80
	B)	Prepare a narrative essay on your first day experience of college.	80
Q.5	Write a) b) c)	down the answers of any two of the following. Prepare a descriptive essay on a Local Park. How would you improve your communication and make it effective? What is 'message' in a communication process?	16

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Seat No.	Set	Р

	B.Sc.	(En	trepreneursnip) (Semeste March/Apr	-	(Old) (CBCS) Examination:	
			ENTREPRENEURS			
		En	trepreneurship and the W	orld	of Business (EN102)	
•			esday, 19-07-2023 To 11:00 AM		Max. Marks:	40
Instr	uction	2 3	All questions are compulsory. Figures to the right indicate full Draw neat diagrams and give w Use of logarithmic table and ca	here	ver necessary.	
Q.1	Selec	et the	correct alternatives from the	follo	wing and rewrite the sentence.	08
Q. 1	1)		epreneurship can best be descri Process that requires setting up Having a strong vision	bed a a bu sines:	as siness s context	
	2)	-	ect management is ideally suited for the following except Flexibility Innovation	l for a b) d)	Speed Repeatability	
	3)		ay, many companies are using m gned to encourage Ethical behaviour increasing profits	nanaç b) d)	·	
	4)	busi	ch could provide an individual wi ness venture The financial rewards Risk taking	th the b) d)		
	5)		is the systematic developmen lose of arriving at an investment Project identification Project feasibility	decis	ion. Project formulation	
	6)		isions taken by an entrepreneur Organizational decisions Routine decisions	on be b) d)	·	
	7)	A va a) c)	llid definition of a business purpo Create a customer Serve the society			
	8)		epreneurial development is the keleration of industrial and entrepreconomic development Shareholders value	eneu	Increase in profits	

			SLR-QD-11
Q.2	Ans a) b) c) d) e)	Define Rural Entrepreneurship Define Financial Planning Define Sole proprietorship Define Innovation Define Small Help Group Define Marketing	08
Q.3	Wri a) b) c)	te short notes on any two of the following: Functions of entrepreneurship Entrepreneurship Development Process Advantages of Business planning	08
Q.4	Ans a) b) c)	Explain Functions of SIDBI. Explain scope of women entrepreneurship. Explain industrial policy of Government of India.	08
Q.5	Ans a) b)	swer any one of the following. Explain role of entrepreneurship in economic development. Explain role and functions of DIC.	08

Seat No.	Set	P
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	B.Sc	: (Entrepreneurship) (Semester : March/April	-	
		ENTREPRENEURSH		
	Ε	conomics for manager and man		• •
-		e: Thursday, 20-07-2023 0 AM To 11:00 AM		Max. Marks: 40
Instr	uction	ns:1) All questions are compulsory. 2) Draw neat diagrams and give equal 3) Figures to the right indicate full ma 4) Use of logarithmic table and calcul	arks.	·
Q.1	Mult 1)	,	b) d)	Unlimited Limited
	2)	•	b) d)	Labour All the above
	3)	•	f b) d)	market. Oligopoly none of these
	4)	,	b) d)	_ market. Monopoly Perfect competition
	5)	, , ,	kno b) d)	wn as Goods Investment
	6)	,	s and b) d)	d owner of the business is Materiality Dual aspect
	7)	,	ons i b) d)	n journal is called as Casting An entry
	8)	,	: b) d)	side. Debit Liabilities
Q.2	a) b) c)	wer any four of the following. Define Business Economics. Define Demand. Define Market. Define Debtor.		08

- Define Capital. Define Assets. e)

Q.3 Write short notes on any two of the following

- a) Nature of Business Economics.
- **b)** Schedule of Demand.
- c) Golden Rules of Accounting.

Q.4 Answer any Two of the following.

08

80

- a) Explain any four accounting concepts.
- **b)** Explain features of perfect competition market.
- c) From the following information prepare Trading a/c of Star Traders for the year ended 31st march, 2023.

Particulars	Debit	Particulars	Credit
	(R)		(R)
Opening Stock	41,000	Sales	1,50,000
Purchases	64,000	Purchases Returns	4,000
Carriage Inward	2,000		
Royalty	5,000		
Wages	4,400		
Sales Returns	13,000		

Note: Closing Stock was Rs. 8,000

Q.5 Answer any one of the following

80

- a) What is production function? Explain long run and short run production function.
- **b)** Journalize following transaction in the Books of Anjana Grocery Stores, Solapur.

Date	Amount (R)	
01.05.2023	Business started business with cash	80,000
04.05.2023	Purchased goods for cash	40,000
05.05.2023	Deposited cash into Bank	15,000
09.05.2023	Sold goods for cash	25,000
19.05.2023	Sold goods to Miss. Prachi on credit	10,000
25.05.2023	Paid rent	5,000

Seat	Set	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination:

'	D. 00.	. (March/Apri			illiation.
			Industrial Chemis			
			Fundamental of inorgani	_		
-			day, 21-07-2023 To 11:00 AM		,	Max. Marks: 40
Instr	uctior	าร: 1)	All questions are compulsory.			
		2	Figures to the right indicate full r			
			Draw neat diagrams and give ed	-		ry.
		4,) Use of logarithmic table and cald (At. Wts H-1, C-12, 0-16, N=14,			
			(7.11.77.13.1.7, 0.12, 0.10, 11.1.7,		20, 01 00.0)	
Q.1	_		he correct alternatives from the	opt	ions.	80
	1)	ine a)	unit of hardness of water isa.m.u.	_ b)	g/cm ³	
		c)	ppm	d)	N/m ³	
	2)	Smo	oke is air pollutant.	·		
	,	a)	inorganic gases	b)	organic gases	
		c)	Aerosols	d)	Particulate	
	3)		H ₃ molecule expected bond angle			
		a) c)	109.5° 120°	b) d)	180° 90°	
	4)	0)	and are main source of	,		
	7)	a)	Lake, pond	b)	Sea, river	
		c)	River, pond	ď)	Rain, river	
	5)	Forn	nation of dry ice is good example	of _		
		a)	electrostatic force of attraction		hydrogen bond	
	٥١	,	Van der Waals attraction	d)		
	6)	vvnic a)	ch of the following compounds is Lithium Chloride	not i b)	onic in nature? Ammonium Chloride	
		c)	Calcium Chloride	d)	Carbon tetrachloride	
	7)	Pi bo	ond is formed by overlap of	_		
	,	a)	p-p orbitals	b)	s-s orbitals	
		c)	s-p orbitals	d)	s-d orbitals	
	8)	The	microbial breakdown of protein m	atte	r in anaerobic conditior	n is called
		a)	anaerobic oxidation	b)	Putrefaction	
		c)	aerobic oxidation	d)	Sedimentation	
Q.2	Ansv	ver a	ny four of the following.			08
~- -			do you mean by hardness of wa	ter?		30
	2)	Draw	CO ₂ cycle in nature.			

- 3) Define hybridization with examples.4) Define electron affinity.

Q.3	Wri 1) 2) 3)	te short notes on any two of the following. LCAO principle COD and BOD of water Types of air pollutants	08
Q.4	Ans 1) 2) 3)	by the following. Draw the Mo diagram of H ₂ molecule, comment on stability and magnetic property of hydrogen molecule Discuss the health effects of carbon monoxide. Distinguish between bonding molecular orbitals and antibonding molecular orbitals.	08
Q.5	Ans a) b)	Explain the formation of BeCl ₂ on the basis of hybridization. Explain the crystal structure of NaCl with respect to unit cell, coordination number and stoichiometry.	08

What are the similarities between atomic orbitals and molecular orbitals?

Name the source of water pollutant

5)

6)

Seat	Set	D
No.		•

B.Sc. (Semester - I) (Old) (CBCS) Examination: March/April-2023 ENTREPRENEURSHIP

		Industrial Chemist			
		Fundamental of organic	•		
		: Saturday, 22-07-2023) AM To 11:00 AM		Max. Marks: 4	40
Instr	uction	s: 1) All questions are compulsory.2) Figures to the right indicate full n3) Use of log table and calculators			
Q.1		ple choice questions.			80
	1)	General formula of alkene is a) C _n H _{2n+2} c) C _n H _{2n-2}	b) d)	C_nH_n C_nH_{2n}	
	2)	In Wurtz reach on alkyl halide is heate a) Na c) Mg	ed wit b) d)	h metal. K Cu	
	3)	In benzene each carbon atom is in a) SP c) SP ³	b) d)	nybridized state. SP ² d ² SP ³	
	4)	Pyridine is compound. a) Antiaromatic c) Non-aromatic	b) d)	Aromatic Pseudoaromatic	
	5)	In Lassaigne's test nitrogen atom in o	rgani	c compound is converted to	
		a) NaNo ₂ c) NaCN	b) d)	NaNo ₃ Na ₂ So ₄	
	6)	If compound contains 60%c, 40% H to	hen %	6 of oxygen in compound	
		a) 60 c) 0	b) d)	100 40	
	7)	CNS functional drug is a) Antibiotic c) Cardiac	b) d)	Antidiabetic Tranquillizer	
	8)	Congored is example of azo dy a) Mano c) tetra	/e. b) d)	Tri Bis	
Q.2	a) b) c)	ver any four of following. Define Huckel's rule. Define aromatic compound. Give its e How will you prepare filtrate in Lassaig Define chromophore with example.		le.	80

- **e)** Define dye with example.
- f) Name the classification of drugs.

Q.3	write a) b) c)	Corey- House reaction for preparation of alkane. Nitration of benzene. Detection of elements in organic compound by sodium fusion test.	08
Q.4	Ansv a) b) c)	wer any two of following. Give the classification of dienes. Give any four qualities of good dye. Give classification of drugs on the basis of therapeutical action.	80
Q.5	Ansv a) b)	wer any one of the following. Explain acidly of acetylene. What is the action of HBr, H ₂ /Ni H ₂ o/H ₂ So ₄ on acetylene? How will you estimate suuphur by carius method. 5.15x10 ⁻⁴ kg of organic compund gave 6.3x10 ⁻⁴ kg of Ba ^{so} ₄ in carius method calculate % of sulphur in compound.	80

Seat	Sat	В
No.	Set	r

B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: March/April-2023

			INDUSTRIAL MICR Fundamentals of Micr	OBI	OLOGY – I
•			nday, 23-07-2023 To 11:00 AM		Max. Marks: 40
Instr	uctior	2	All questions are compulsory. Figures to the right indicate full r Draw a Neat labeled diagrams v		
Q.1	Choo 1)	The	he correct alternative and rewrited areastion for the growth of microor mentation process. Submerged Liquid	rgan b)	
	2)		ong the following substances Corn Molasses Black strap Molasses	b)	Yeast extract
	3)		homogenous distribution of nutrice fermenter is carried out by Sparger Impeller		nd uniform mixing of microorganisms Baffles Antifoam agent
	4)		small scale bioreactor have volur 1-10 7- 12		f liters. 5-7 1-20
	5)		increase in the scale of fermenta me to large volume is called as _ Scale up Scale line	b)	-•
	6)		insoluble particles from liquid me entation media sterilized by Extraction Drying	dia a b) d)	are separated and heat labile filtration Autoclaving
	7)	The a) c)	sulphite waste liquor is obtained Textile Paper and pulp		industry. Liquor Leather
	8)	impo a) c)	is a cryoprotective agent used ortant microbes. 10% glycerol Paraffin wax	b)	ne cryopreservation of industrially propylene Ascorbic acid

Q.2	Def	ine any four of the following.	08
	a)	Define 'D' value.	
	b)	Define precursors.	
	c)	Define screening.	
	d)	Enlist the antifoam agents involved in fermentation.	
	e)	What is the sterilization?	
	f)	What is auxotroph?	
Q.3	Wri	te short notes on any two of the following.	08
	a)	Discuss in brief difference between batch and continuous fermentation?	
	b)	Describe in detail carbon and nitrogen sources involved in fermentation media.	
	c)	Describe in brief process of inoculum development.	
Q.4	Ans	swer any two of the following	08
	a)	Describe in brief types surface, submerged and fed batch fermentation process.	
	b)	Describe in brief mechanism of sterilization of media by filtration.	
	c)	Give a detailed account on methods of preservation and maintenance of industrially important microorganisms.	
Q.5	Ans	wer any one of the following.	08
	a) b)	Define fermenter. Discuss in details factors involved in designing of fermenter. Explain in detail methods of strain improvements of industrially important	

microorganisms.

Seat No.		Set	Р
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B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination:

			Mar INDUSTRIA	ch/April-202 MICROBIC		GY - I		
			Basic Technique					
•			onday, 24-07-2023 I To 11:00 AM			,	Max. Marks: 40)
Instr	uctio	2) All questions are compu) Draw neat diagrams wh) Figures to the right indic	erever necessa	•			
Q.1	Choo 1)	a) c)	he correct alternative (N acts as source of light Eye piece Objective lens	in compound r	micro b) d)	oscope. Condenser Mirror	08	3
	2)	a) c)	is acting as source of Peptone NaCl		trog(b) d)	en in culture medi Agar agar HCI	a.	
	3)	McI a) c)	ntosh jar is used for cultiv Fungi Anaerobic bacteria		b) d)	Viruses Actinomycetes		
	4)	a) c)	acts as primary stain i Basic fuchsin Alcohol		ing. b) d)	Crystal Violet lodine		
	5)	Pep a) c)	otone water or Tryptone w Indol Voges Proskauer		r b) d)	test. Methyl Red Citrate utilization	ı	
	6)	Viru a) c)	ises are observed under ₋ Compound Electron		ope. b) d)	Phase contrast Bright field		
	7)	Mad a) c)	cConkey's Agar is selectiv Coliforms S. aureus		n of b) d)	Bacillus Mycobacterium		
	8)	a) c)	is an example of basic Eosin Congo Red		b) d)	Nigrosine Crystal Violet		
Q.2	a) b) c) d)	Defir Defir Wha Wha Wha	any four of the following ne synthetic media. ne magnifying power of le t is DMC? t is use of fluorescent mid t is Pure Culture? ch medium is used for sta	ns. croscope?	test1	?	30	3

Q.3	Wri a) b) c)	te short notes on any two. Differential media. Capsule staining. IMVic Test.	08
Q.4	Ans a) b) c)	Swer any two of the following. Describe various components used in Nutritional Media. Describe in brief SPC. Describe in brief Urea Hydrolysis Test.	08
Q.5	Ans a) b)	swer any one of the following. Describe in detail Electron Microscope. Describe in detail Gram staining.	08

Seat	Sat	Ъ
No.	Set	

B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: March/April-2023 INDUSTRIAL BIOTECHNOLOGY (Paper - I) Cell Biology (EN108)

		INDUSTRIAL BIOTE Cell Biolog		• • • •	
•		e: Tuesday, 25-07-2023 0 AM To 11:00 AM		ı	Max. Marks: 40
Instr	ructio	ns: 1) All questions are compulsory. 2) Draw neat diagrams and give 3) Figures to the right indicate ful 4) Use of logarithmic table and ca (At. Wts.: H=1, C=12, O=16, N=	l marks alculate	s. or is allowed.	<i>1</i> .
Q.1	Choo 1)	ose the correct alternative and rew Genetic information stored in mRN/ a) Ribosome c) Endoplasmic reticulum	A is tra b)	_	
	2)	Nucleoproteins are synthesised in _ a) Cytoplasm c) nuclear envelope	b)	Nucleolus Nucleoplasm	
	3)	The pH of a lysosome is a) Acidic c) Neutral	b) d)	Basic Depends on the cell ty	/pe
	4)	 This is not the function of plasm a) Energy transduction b) Intercellular interactions c) Responding to external stimuli d) Assisting in chromosome segre 		embrane.	
	5)	The site of aerobic respiration in eu a) Cilia c) Mitochondria	b)	c cells is Plastid Peroxisome	
	6)	The endoplasmic reticulum in rapid a) poorly developed c) absent		ing cells is highly developed not functional	
	7)	Ion carriers are located in a) Nucleus c) Cellular space	b) d)	Plasma membranes Cell wall	
	8)	Microfilaments are composed of a) actin protein c) chitin protein	 b) d)	mosaic protein tubulin protein	

			3LK-QD-11
Q.2	Ans a) b) c) d) e) f)	wer any four of the following. Define Intermediate filaments. Define cell fractionation. What are micro bodies? Enlist functions of Chloroplast. Explain Signal transduction. Define Extracellular Matrix.	08
Q.3	Write a) b) c)	Define Carcinogenesis and write a note on agents promoting carcinogenesis. Write a note on Structure and functions of Mitochondria. Explain Chemical components of biological membranes.	08
Q.4	Ans a) b) c)	wer any Two of the following. Write a note on membrane receptors for extra cellular matrix. Explain Structure, biogenesis and functions of Golgi Complex. Discuss in detail about Fluid Mosaic Model.	08
Q.5	Ans a) b)	wer any one of the following. Write a detailed note on structure and functions of Nucleus. Explain Structure and function of Ribosomes and discuss role synthesis.	08 in protein

No. Set F	Seat No.	t P
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B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination:

March/April-2023 INDUSTRIAL BIOTECHNOLOGY (Paper – II) Animal and plant physiology (EN109)									
			dnesday, 26-07-2023 To 11:00 AM			Max. Marks: 40			
Instr	uction	2)	All questions are compulsory. Draw neat diagrams and give experience to the right indicate full rules of logarithmic table and calculate. Wts.: H=1, C=12, 0=16, N=10	nark culat	s. or is allowed.	ry			
Q.1	Choo 1)		ne correct alternatives from the thalamus and the hypothalamus Diencephalon Brain stem	are I		08			
	2)	a) c)			phins. LH and Oxytocin LH and vasopressin				
	3)	a) c)	is known as the pacemaker of Purkinje fibers AVN	the l b) d)					
	4)	The a) c)	hormone responsible for "fight- o oestrogen and progesterone Thyroxine and melatonin	b)	epinephrine and nore	pinephrine			
	5)	Nitro a) c)	ogen fixation is the conversion of N_2 to urea N_2 to NH_3	b) d)	 N2to NO3 N2 to N				
	6)	The a) c)	peripheral nervous system has _ Two Four	b)	_ divisions. Three Five				
	7)	The a) c)	length of this is reduced while the H-Zone Sarcomere	e mu b) d)	scle contracts A-Band I-Band				
	8)	Conv a) c)	version of ammonia to nitrite and Assimilation Nitrification	ther b) d)		·			
Q.2	Answ a) b) c) d) e)	Expla Wha Expla Defir Defir	ny four of the following: ain Haemopoisis. t is hypo & hyper-secretions? ain primary structure of shoot. he Photosynthesis pigments. he seed germination. he vernalization.			08			

SLR-QD-1	8
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Q.3	Writa) b) c)	te short notes on any two of the following: Discuss in detail about Mechanism of urine formation. Add a note on Composition of blood. Define Transpiration and add a note on its opening and closing.	30
Q.4	Ans a) b) c)	wer any Two of the following: Write a note on leaf anatomy (dorsi-ventral and isobilateral leaf). Explain concept of two photo systems. Discuss in detail about Hypothalamus, pituitary endocrine glands.	08
Q.5	Ans a) b)	wer any one of the following: Write a detail note on Calvin cycle. Define Hormones and Explain in detail about plant growth hormones. (Auxins, Gibberlins)	08

Seat No.		Set	Р
В.	Sc. (Entrepreneu	rship) (Semester - II) (New) (CBCS) Examination:	

-	3.00.	(=:::	March/Apri ENGLISH (I-20		
			Communication S			
•			nday, 19-06-2023 To 02:00 PM		Max. Marks	s: 40
Instr	uction		All questions are compulsory. Figures to the right indicate full r	nark	S.	
Q.1	Choo 1)		ne correct alternative from the end according to the author has only John Rockefeller B. Russell	one	-	08
	2)		indranath Tagore won the Nobel njali in 1911 1913	Prize b) d)	e for Literature for his book 1912 1914	
	3)		e age of Monarchy, who gets ma onal interests? The People The Countries	nipu b) d)	lated to achieve their own The Ministers The King	
	4)	Who a) c)	has lynched the lakes? The poet Vehicles	b) d)	Factories Humans	
	5)	How a) c)	old is Pope believed to be when 11 12	he v b) d)	wrote 'Ode on Solitude'? 13 14	
	6)	Wha a) c)	t does the poet wish to hear from Marriage plans His family		lover in the poem – 'Remember'? His work Future plans	
	7)	Choo a) c)	ose the correct synonyms for the Dirty Gloomy		d - Dark. Light Thought	
	8)		past tense form in the following s (go) to Mumbai last year. gone went	b) d)	ence. was go was going	

Q.2	Write the answers in short. (Any Four)

- a) What opinion does the author have of the education system of his time?
- **b)** What is the true sense of freedom?
- c) Discuss the theme of the poem 'Our Earth Will Not Die' in your words.
- **d)** Why is the poet giving so much emphasis on solitude in the poem and what does it mean to him?
- e) Discuss the tone of compassion used by the poet in the poem Remember?
- f) What kind of people can achieve the true essence of freedom?

Q.3 Answer the following questions. (Any One)

10

12

- Write a letter to your father requesting him to send 5000/- as your class trip is going on to visit South India. Mention the details of four tour and places to visit.
- b) Write a formal letter to your college librarian as you lost your library card. Request him also to issue a duplicate library card to you. Mention all details of yourself like Name, Class, Roll No and how you lost the card.
- **Q.4** What is interpersonal intelligence? Write a detailed note on interpersonal intelligence and how to improve them.

10

Seat	Sat	D
No.	Set	F

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

	Fui	ndar	Entrepreneurship Sc nental of Marketing & Mana		` - '	
•			esday, 20-06-2023 To 02:00 PM		Max. Marks: 4	.0
	_	n s: 1) 2)	All questions are compulsory. Figures to the right indicate full more properties. Draw neat labeled diagrams when			
Q.1			he correct alternatives from the	-	ons. 0	8
	1)	a) c)	keting environment includes Internal Micro & Micro	b) d)	External All of these	
	2)	a) c)	is the real father of marketing Henry Fayol Adam Smith	man b) d)	-	
	3)	Mar a) b) c) d)	ket mix consists of Place Price Product, price, place & promotio Product, price, place and profit	n		
	4)	Mar a) b) c) d)	keting research is concerned with Anticipation of production Supply position Financial problems Solution to specific problems of			
	5)		means organized methodata and only those data which he Reporting to Management Management Accounting Management Information Techn Management Information Syster	e nee		
	6)	Mar a) c)	nagement Accounting is meant for Cost and Financial Accountant Shareholders	b) d)	Financial Accountant Stakeholders	
	7)	Wor a) c)	king capital means Current liabilities Net assets	b) d)	Fixed assets Net current assets	
	8)	Turr a) c)	nover ratio helps management in Managing resources Evaluating performance	b) d)	 Managing debts None of these	

						JLIV-6	(D-20
Q.2	An: a) b) c) d) e) f)	E-Mark Interna Define Define Define	l Environment Segmentation. Marketing Serv	vices			08
Q.3	An	•	two of the fo	_			08
	a)		Responsibility A	•			
	b)	•	need of workin	O 1			
	c)	Define of	concept of finar	ncial analysis.			
Q.4	Δn	swar anv	two of the fo	llowing			08
Q. -T	a)	•	e working capi	•			00
	ω,	Calcula				1	
			Cash		Creditors	94000/-	
			Bank Bal	152000/-	,	42000/-	
			Debtors	138000/-		44000/-	
			Stock	50000/-	Bank OD	25000/-	
	p)	•	•	rketing Research			
	c)	State th	e Problems an	d tools in e-mark	eting.		
Q.5	An	swer anv	one of the fo	llowing			08
٦.٠	a)				ation and state be	nefit of market	
	ω,	segmen		marrot oog.nome			
	b)			ne data given bel	OW.		
	,				ors -44500, Machi	nery -240000,	
		Bills pay	able- 8500, St	ock -88000, Os. I	Exp 1500, Cash	-18600,	
		Bank o/	d -4500, Bank	bal- 24400, Op. S	Stock-150000, Sal	es -800000,	
		Purchas	ses -250000, C	losing stock -200	000, Wages -100	000,	
					p -80000, Selling	exp- 40000,	
		Salary -	140000, Net P	rofit- 240000.			

Seat	Set	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

		_	ENTREPRENEURSHIP S	SCIEN	` -	
D . (D - ()		ost Accounting and Project	ct Ma	• ,	40
•			dnesday, 21-06-2023 To 02:00 PM		Max. Marks	: 40
Instr	uction	2)	All questions are compulsory. Draw neat diagrams and give entering in Figures to the right indicate full to Use of logarithmic table and Ca (At. Wts. H=1, C=12, O=16, N=	marks Iculato	or is allowed.	
Q.1	_		ne correct alternative from the	•		80
 The main objective of cost accounting is to provide information to the management for 				provide information to the		
		a) c)	Planning Decision Making	b) d)	Policy Making None of these	
	2)		card is also known as			
		a) c)	Storage Ledger Material Bill	b) d)	Stock Card None of these	
	3)	σ,	is a person responsible for s	,		
	,	a)	Entrepreneur	b)	Businessman	
		c)	Manager	d)	Planner	
	4)	Whice a)	ch are the following industries are Alcohol	e to be b)	e given compulsory licensing? Tobacco	
		c)	Drugs & pharmaceutical	d)	All of these	
	5)		ogram is usually a group of	<u> </u>		
		a) c)	Plans Related Project	b) d)	People & Work unrelated Project	
	6)	,	ource refers to	u,	amolated Project	
	•,	a)	Manpower	b)	Machinery	
		,	Material	d)	All of these	
	7)	The a)	cost of structure of proposed pro Cost of material input	oject m b)	ust consider Labour Cost	
		c)	Factory Overheads	d)	All of these	
	8)	SSI	stands for			
		a) c)	Side Scale Industry Server Scale Industry	b) d)	Small Scale Industry Secure Scale Industry	
		C)	Server Scale industry	u)	Secure Scale moustry	
Q.2			ny four of the following. e Cost.			80
	,		ie Accounting.			
	c)	Defin	e Project.			
	•		ie Management. ie Report.			
	•		e Life Cycle.			

		SLR-QD-21
Q.3	Write notes on any two of the following.	08

- a) Technique of Costing
- b) Role of SSI
- c) Cost Centre
- Q.4 Answer any Two of the following.
 - a) Write down objective of Cost Accounting.
 - b) Explain the relation between SSI and LSI.
 - c) Explain the advantages of Costing.
- Q.5 Answer any one of the following.
 - a) Explain the role and responsibilities of Project Manager.
 - b) Explain the MSME Act Govt of India Recent policies regarding SSI.

80

80

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

			INDUSTRIAL CHEMIS Fundamentals of Physica	STR	Y (Paper – III)
			ursday, 22-06-2023 I To 02:00 PM		Max. Marks: 40
Instr	uctio	3) All questions are compulsory. 2) Figures to the right indicate full 3) Draw neat diagrams and give e 4) Use of logarithmic table and cal (At. Wts H=1, C=12, 0=16, N=1	quati culat	ons wherever necessary. or is allowed.
Q.1	Cho 1)	Rea pse	the correct alternatives from the ction which are bimolecular yet foudo unimolecular reaction. Zero Second	llowi	tions. ng order kinetics are called First Third
	2)	a)	reciprocal of viscosity is called surface tension Fluidity		fractional resistance none of these
	3)	a)	e- Thomson expansion of an idea Heating no change in temperature	b)	s produces Cooling none of these
	4)	The a) c)	number of moles of solute in one Normality mole fraction		of solution is called as Molality Molarity
	5)	a) b) c)	e of reaction increases with increase in temperature is independent on temperature is independent of concentration		
	6)		temperature at which a real gas of range of pressure is critical temperature reduced temperature	bbeys b) d)	s the ideal gas behaviour over a Boyle's temperature inversion temperature
	7)	Mole a) c)	ecularity never be Zero Infinity	b) d)	Negative all of these
	8)	The a) c)	unit of first order rate constant ar mole dm ⁻³ s ⁻¹ s ⁻¹	e b) d)	dm ³ mole ⁻¹ s ⁻¹ s ⁺¹

Q.2	An	swers any four of the following.	08
	a)b)c)d)e)f)	What is mean by rate of reaction? Write Van der Waals equation. Mention Macleod's formula for parachor. Define molecular weight and equivalent weight. What are the advantages of stalagmometer or drop-pipette? Define second order reaction with example.	
Q.3	a)	ite short notes on any two of the following. Factors affecting the rate of reaction Andrew's isotherm of CO ₂ Mole fraction and atomic fraction	08
Q.4	Ana) b) c)	swers any two of the following. Explain in detail Joule Thomson effect. Explain zero order reaction with its example. Explain molarity and molality with example.	08
Q.5	Ana) b)	swers any one of the following. Explain Drop - Weight method for determination of surface tension. Determine the rate constant for first order reaction. Write any two characteristics of first order reaction.	08

Seat No.	Set	Р
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B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

			INDUSTRIAL CH	EMISTRY	˙(Pa	per – IV)	
Dov	P Doto		Fundamentals of Anal	iyticai Ch	iemi	Stry (EN 1205) Max. Marks	. 40
			day, 23-06-2023 To 02:00 PM			iviax. iviai ks	». 4U
Instr	uctior	2)	All questions are compulso Draw neat labeled diagram Figures to the right indicate	s whereve		essary.	
Q.1	_		ne correct alternative from	•	n.		08
	1)		enthalpy can be defined as H= E + PV	·	b)	H= E - PV	
		c)	H= E - TS		d)	H= E + TS	
	2)		ch of the following compoun NaOH A1(OH) ₃	id can be u	sed a b) d)	is an antacid? NaHCO₃ Na₂SO₄	
	3)		iency of an engine is always	S			
		a) c)	Greater than unity Equal to unity		b) d)	Less than unity Always zero	
	4)	a)	ch of the following substanc Tetra ethyl lead Lead nitrate	e can be us	sed a b) d)	s an anti-knocking agent? Lead tetrachloride Lead acetate	
	5)	a)	ne number 100 has been a n-heptane 2,2-dimethyl pentane	ssigned to	b) d)	 iso-octane neohexane	
	6)	Whice a) c)	ch of the following polymers Polyethylene Polystyrene	are the ex	amplo b) d)	e of addition polymers? PVC all of these	
	7)		elite is an example of				
		a) c)	Condensation Cross linked		b) d)	Addition All the above	
	8)	The a) c)	relation between Cp and Cv Cp + Cv = R Cp/Cv= R	v is correctl	y give b) d)		
Q.2	Ansv	ver aı	ny four of the following.				08
	-		is refining of petroleum?				
	•		on any two antacids. e molar heat capacity.				
	d)	What	are the major adulterations	in milk?			
	,	Defin	e Octane number	ii) FI	ash p	ooint	
		,	the statement of second lav	,			

SLR-QD-23

Q.3	Wri a) b) c)	te short notes on any two of the following. Types of fuel Chemical composition of milk Joule Thompson effect	08
Q.4	Ans a) b) c)	Explain the chemistry of nylon-66. Write on Diesel and residual oil. Describe Carnot's cycle and its efficiency.	08
Q.5	Ans	swer any one of the following.	08
	a)	What are the essential nutrients required for the plants? Give their classification with examples.	
	b)	Discuss in detail the condensation polymers.	

Seat	Set	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023 INDUSTRIAL MICRORIOLOGY -III

		ļ	ואטסואו Fundamentals of Industria	_)
-		e: Sa	turday, 01-07-2023 I To 02:00 PM			Max. Marks: 40
Instr	uctio	2) All questions are compulsory.) Draw neat labeled diagrams w) Figures to the right indicate ful			
Q.1	Cho 1)		he correct alternative and rew eller in the fermenter is used for Mixing the media Supplying gases			08
	2)	,	nary screening of amylase produ Alcohol Sulfuric acid	,		
	3)	Sulf a) c)	fite waste liquor is obtained from Corn Sugar	b) d)	industry. dairy Paper and pulp	
	4)		d oil is example of Anti foam agent Precursor	b) d)	Vitamin Growth factor	
	5)		at sensitive media components a Autoclave Filtration	are ster b) d)	ilized using Hot air oven Boiling	
	6)	Anti a) c)	ibiotic assay is the example of _ Growth assay Metabolic response assay	b)	Chemical assay Growth inhibition assa	ny
	7)	Star a) c)	rter culture in fermentation is kno inoculum downstream processing	own as b) d)	broth filtration	
	8)	Typ a) c)	ical growth curve is observed in Continuous Chemostat	b) d)	fermentation. Batch Turbidostat	
Q.2	Ans a) b) c) d) e)	Wha Wha Wha Wha Wha	n short, any four of the follow t is whey? t is impeller? t is lag phase? t is rDNA technology? t is chemostat? t is enzymatic assay?	ing.		08

			SLR-QD-24
Q.3	Wri a) b)	te short notes on any two of the following. Secondary screening Turbidometric assay	08
	c)	Continuous sterilization	
Q.4	Ans a) b) c)	wer any Two of the following. Write in detail on Inoculum development. Describe in detail raw materials used in fermentation media. Describe in detail strain improvement methods.	08
Q.5	Ans a) b)	swer any one of the following. Describe in detail Continuous fermentation. Explain in detail Design of Fermenter.	08

Seat No.					;	Set	P
В	.Sc.	INDUS	March/Apri STRIAL MICROBIC	I-20 DLC	GY (Paper–IV)	tion:	
		Basics techr e: Sunday, 02-07- 0 PM To 02:00 P	-2023	ai ivi	icrobiology (EN1207) Max.	Marks	: 40
Instru	ctior	2) Figures to	ns are compulsory. the right indicate full n diagrams wherever no				
	Choo		alternatives from the tream processing.	opt	ions.		80
	•,	a) Media Scree c) Product rec	ening	b) d)	Media formulation Inoculum preparation		
	•	capital cost. a) 40-80	ndustry maintenance o	b)			
	3)	c) 50-60 is not the a) Enzymatic c) Homogeniza	physical method for coation	d) ell ra b) d)			
	4)	,	is regarding to testing	,	eased of the body. Cholesterol Temperature		
	5)	is primary	udge		=		
	6)	Initial use of com a) Bill Gates c) Kinoshita et	•	b)	nology was done by Yamashita and Murao Louis Pasteur		
	7)	The charged mode a) Ion exchange c) Adsorption	•		by chromatography. Affinity Thin layer		
	8)	In BOD test of ef a) 37 c) 45	fluent, incubation is ca	arrie b) d)	d out at ºC temperatur 10 20	e.	

		SLR-0	QD-25
Q.2	An	swers any Four of the following.	08
	a)	What is LAL test?	
	b)	Define COD.	
	c)	Define Quality Assurance.	
	ď)	What is sterility testing?	
	e)	What is market potential of product?	
	f)	Define Chromatography.	
Q.3	Wr	ite short notes on any Two of the following.	08
	a)	Cell disruption methods	
	b)	BOD test	
	c)	Product recovery cost	
Q.4	An	swers any Two of the following.	08
	a)	Describe recovery of product by solvent extraction.	
	b)	Describe various factors affecting fermentation economics.	
	c)	Describe in brief various tests for quality control of fermentation product.	
Q.5	An	swers any One of the following.	08
	a)	Describe various methods of effluent treatment.	

Describe in detail computerized fermenter control.

b)

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

			INDUSTRIAL BIOTECHNO Basics of Biomolecul		• •		
•			nday, 03-07-2023 To 02:00 PM			Max. Mark	s: 40
Instr	uctior		All questions are compulsory. Figures to the right indicate full man	ks.			
Q.1	Rewi		he following sentences by choosing steric enzymes are smaller than simple enzymes smaller than simple enzymes but no larger than simple enzymes larger and more complex than simple enzymes.	ot cor	nplex	ve.	08
	2)	a) c)	is the general formula of Carbohy (C ₆ H ₂ O)n (C ₄ H ₂ O)n	drate b) d)	s. (CH ₂ O)n (C ₂ H ₂ O)n COOH		
	3)	a) c)	is an oligosaccharide linked to pro Glycolipid Galactoside	otein. b) d)	Ganglioside Glycoprotein		
	4)	Amila) b) c) d)	no acids with aromatic side chains a phenylalanine, tryptophan, tyrosine phenylalanine, tryptophan, serine tryptophan, asparagine, tyrosine tryptophan, threonine, tyrosine				
	5)	ATP a) c)	is a nucleic acid nucleoside	b) d)	vitamin nucleotide		
	6)	a) c)	vitamin helps in blood clotting. Vitamin C Vitamin A	b) d)	Vitamin D Vitamin K		
	7)	a) c)	is a fat-soluble vitamin. Vitamin B Vitamin K	b) d)	Vitamin B ₁₂ Vitamin C		
	8)	The a) c)	bond between amino is called Peptide bond Ionic bond	 b) d)	Hydrogen bond Acidic bond		

Q.2	Ans	wer Any four of the following.	30
	a)	Protein Purification	
	b)	Enzyme activity	
	c)	Glycolipids	
	d)	Enlist fat soluble vitamins	
	e)	Prostaglandins	
	f)	Coenzyme	
Q.3	Writ	e short notes on any two of the following.	08
	a)	Differentiate between denaturation and renaturation of DNA	
	b)	Write a note on Homo & Hetero Polysaccharides.	
	c)	Explain Glycoprotein's and their biological functions.	
Q.4	Ans	wer any two of the following.	08
	a)	Write a note on types of proteins and their classification.	
	b)	Explain Nucleosides and Nucleotides.	
	c)	Add a note on Cholesterol.	
Q.5	Ans	wer any one of the following.	30
	a)	Write a note on different level of structural organization of proteins.	
	b)	Explain physical & chemical properties of Nucleic acids.	
	•		

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2023

			INDUSTRIAL BIOTEC Basics of Metal		· · · · · · · · · · · · · · · · · · ·	
-			uesday, 04-07-2023 M To 02:00 PM		Max. Marks:	40
Instr	ructio	4	 All questions are compulsory Figures to the right indicate f Draw neat diagrams and give Use of logarithmic table and (At. Wts H=1, C=12, O=16, N 	ⁱ ull mark e equati calculat	ons wherever necessary. or is allowed.	
Q.1	Cho 1)	Che	Metabolites	he proc	ti ons. ess of metabolism is known as Radicals Intermediates	08
	2)	Nun a) c)			fermentation are 10 2.5	
	3)	•	oxidation of fatty acid occurs m Endoplasmic reticulum Nucleus	b)	which cell organelle? Mitochondria Cell membrane	
	4)	a)	aptonuria is due to deficiency o homogentisic acid oxidase alpha glucosidase	b)		
	5)	a)	ich pyrimidine base contains ar Cytosine Uracil		group at carbon 4? Thymine Adenine	
	6)		ich of the following are primary Amino acids Both a and b	b)	lites? Vitamins None of the above	
	7)	Trai a) b) c) d)	nsamination is the process whe carboxyl group is transferred α - amino group is removed from polymerisation of amino acid None of these	from am	nino acid amino acid	
	8)	Whi	ich of the following cycle shows	s amphik	polic pathway?	

b) Citric acid cycle

d) Lipid metabolism

a) Glyoxylate

c) Glycolysis

Q.2	Answer any FOUR of the following.					
	a)	Define secondary metabolism.				
	b)	Explain the significance of ketogenesis.				
	c)	Define futile cycle.				
	d)	Define biologically active amines.				
	e)	Name the two enzymes involved in salvage pathway of purines.				
	f)	Define standard free energy change.				
Q.3	Wri	te short notes on any TWO of the following.	08			
	a)	Metabolic roles of ATP-Phosphoryl group transfer.				
	b)	Glycolysis				
	c)	β -oxidation of saturated fatty acid.				
Q.4	Ans	swer any TWO of the following.	08			
	a)	Explain Urea cycle.				
	b)	Describe about Lesch- Nyhan syndrome.				
	c)	Explain the four irreversible steps of gluconeogenesis.				
Q.5	Ans	swers any ONE of the following.	08			
	a)	Explain in detail Citric acid cycle.				
	b)	Explain in detail β -oxidation of polyunsaturated fatty acid.				

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Seat No.					Set	Р			
B.Sc. (B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023 ENGLISH (Comp.) Literary Voyage (EN201/EN20201)								
Time: 12:0	Day & Date: Monday, 19-06-2023 Time: 12:00 PM To 03:00 PM Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks.								
Q.1 A)		vided. What was Harm'? a) Nove c) Biogs	s the author reading els raphies	in t b) d)	choosing correct option he prose 'Does Education Do Autobiographies Poetry speech in the essay 'Of Discourse	10 e'?			
	3)	,	uence /s the huge role and lue	d) affe	Good words and order Virtue ects the entire Country? Monarchy Calumny				
	4)	a) Maltrb) A vicc) On th	g to the poet, the eareated by human be tim of various accidence point of extinction willy loaded with villai	ings ents 1					
	5)	How old (a) 11 c) 13	is pope believed to I	b)	then he wrote "Ode on Solitude"? 12 14				
	6)	a) Loud	d of place is the poe place t place	et go b) d)	•				
	7)	Identify that a) Prop	osal	fron b) d)	n the given options "Idea". Plan None of the above				

		8)	Fill in the blanks with the past tense forms of the verbs given within the brackets. 'The Mechanic (repair) the car. a) will repaired b) was repaired c) repaired d) repair	
		9)	The outline of a presentation includes a) acknowledgment b) probable questions c) an introduction, body and conclusion d) None of the above	
		10)	 P.P.T Presentation means a) Power Point Presentation b) Power Presentation c) Point Power Presentation d) None of the above 	
	B)		wer the following questions in one word/one sentence.	06
		1)	Which sort of person asks troublesome questions in the essay 'Of Discourse'?	
		2)	What benefit could be derived from Struggle of youth?	
		3) 4)	What kind of people can achieve the true essence of freedom? What is described as septic daggers?	
		5)	Which literary era did Alexander Pope write it?	
		6)	What does the poet wish to hear from the lover?	
2.2			the following questions in brief. (Eight out of Twelve)	16
	1) 2)		at is author's purpose in discussing discourse? at is the relation between education and virtue?	
	3)		at kind of people can achieve the true essence of freedom?	
	4)	Wha	at opinion does the author present to the people in India of that time	
	5)	_	arding freedom? at are the common factors among men of eminence?	
	6)		at is the author's purpose in discussing discourse?	
	7)	Disc	cuss and write the theme of the poem "Our Earth Will Not Die"?	
	8)		e down the summary of the poem "Ode on Solitude".	
	9)		cuss the tone of compassion used by the poet in the poem member".	
	10)		e down the process of paneer in milk factory.	
	11)	•	pare a presentation on your favourite social worker.	
	12)	vvrit	e down the importance of the soft skill "Interpersonal intelligence".	

Q.3	A)	Writ 1)	e down the answers of any two briefly. Describing the reaching process of Pune to Mahabaleshwar by car.	10			
		2)	Define and explain the use of power point presentation in today's advanced digital learning school / college.				
		3)	Explain the difference between formal letter and informal letter.				
	B)	Prep	are a presentation on your own college and its facilities.	06			
Q.4	A)	Writ 1)	e down the following answers only any two briefly. Read the following advertisement and write a job application letters. MATOSHREE UMABAI ENGLISH MEDIUM SCHOOL Wanted Teacher Qualification - M.A. B.Ed Experience - Min 1 year Interested candidates send CV and application at Indiaumabaischool@gmail.com. Explain the soft skill "Interpersonal Intelligence".	12			
		4)	Write down the process of making pizza. How to make it within 15 minutes.				
	B)	Expl	ain power point presentation and its importance.	04			
Q.5	Writ a)	rite down any two of the following. State three such situations from your professional life when you have felt the following emotions. 1) Mad 2) Sad 3) Glad					
	b)	Write down the process of making sugar in factory in your own language.					
	c)	Write	e down the process of reaching the vegetable market in your city your home.				

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023

	F	Princ	Entrepreneurship Sc ciples of Marketing & Mana		` •	
•			esday, 20-06-2023 To 02:00 PM		Max. Marks: 4	.0
Instr	uctio	2)	All questions are compulsory. Figures to the right indicate full m Draw neat labeled diagrams whe			
Q.1			he correct alternatives from the	opti	ons. 0	8
	1)	Mar a) c)	keting environment includes Internal Micro & Micro	b) d)	External All of these	
	2)	a) c)	is the real father of marketing Henry Fayol Adam Smith	man b) d)	agement. F.W. Taylor Philip Kotler	
	3)	Mar a) b) c) d)	ket mix consists of Place Price Product, price, place & promotio Product, price, place and profit	n		
	4)	Mar a) b) c) d)	keting research is concerned with Anticipation of production Supply position Financial problems Solution to specific problems of			
	5)		means organized method data and only those data which he Reporting to Management Management Accounting Management Information Techn Management Information Syster	e nee	ds for his decisions.	
	6)	Mar a) c)	nagement Accounting is meant for Cost and Financial Accountant Shareholders	b) d)	Financial Accountant Stakeholders	
	7)	Wor a) c)	king capital means Current liabilities Net assets	b) d)	Fixed assets Net current assets	
	8)	Turr a) c)	nover ratio helps management in Managing resources Evaluating performance	b) d)	 Managing debts None of these	

						SLIV-6	(D-Z3
Q.2	An: a) b) c) d) e) f)	E-Mark Interna Define Define Define	l Environment Segmentation. Marketing Serv	vices			08
Q.3	An	swer any	two of the fo	llowing.			08
	a)	Define F	Responsibility A	Accounting.			
	b)	•	need of workin	O 1			
	c)	Define of	concept of finar	ncial analysis.			
Q.4	۸n	ower on	two of the fo	llowing			08
Q. 4	a)	•	e working capi	•			UO
	uj	Odiodiai	c working capi	tai ii.			
			Cash	52000/-	Creditors	94000/-	
			Bank Bal	152000/-	,	42000/-	
			Debtors	138000/-	<u> </u>	44000/-	
			Stock	50000/-	Bank OD	25000/-	
	b)	•	•	rketing Research			
	c)	State th	e Problems an	d tools in e-mark	eting.		
Q.5	۸n	ewor any	one of the fo	llowing			08
Q.J	a)				ation and state be	nefit of market	00
	uj	segmen		Market Segmente	ation and state be	nent of market	
	b)			ne data given bel	OW.		
	,				ors -44500, Machi	nery -240000.	
		•	•	•	Exp 1500, Cash	•	
					Stock-150000, Sa		
					000, Wages -100		
					p -80000, Selling	exp- 40000,	
		Salary -	140000, Net P	rofit- 240000.			

Seat	Set	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023

ENTREPRENEURSHIP SCIENCE (Paper - IV)

		C	Cost Accounting and		\	
•		e: We	dnesday, 21-06-2023 To 02:00 PM	•	• • • • • • • • • • • • • • • • • • • •	. Marks: 40
Instr	uctior	2)	All questions are compuls Draw neat diagrams and Figures to the right indica Use of logarithmic table a (At. Wts. H=1, C=12, O=	give equatio te full marks ind Calculato	or is allowed.	
Q.1	 Choose the correct alternative from the option. The main objective of cost accounting is to provide information to management for a) Planning b) Policy Making c) Decision Making d) None of these 				provide information to the Policy Making	08
	2)	Bin (a) c)	card is also known as Storage Ledger Material Bill	 b) d)	Stock Card None of these	
	3)	a) c)	is a person responsible Entrepreneur Manager	_	up a Business. Businessman Planner	
	4)	Whice a) c)	ch are the following industr Alcohol Drugs & pharmaceutical	b)	e given compulsory licensing Tobacco All of these	ງ ?
	5)	A pro a) c)	ogram is usually a group o Plans Related Project	b) d)	People & Work unrelated Project	
	6)	Reso a) c)	ource refers to Manpower Material	b) d)	Machinery All of these	
	7)	The a) c)	cost of structure of propos Cost of material input Factory Overheads	ed project m b) d)	ust consider Labour Cost All of these	
	8)	SSI a) c)	stands for Side Scale Industry Server Scale Industry	b) d)	Small Scale Industry Secure Scale Industry	
Q.2	a) b) c) d) e)	Defin Defin Defin Defin Defin	ny four of the following. e Cost. e Accounting. e Project. e Management. e Report. e Life Cycle.			08

Q.3	 Write notes on any two of the following. a) Technique of Costing b) Role of SSI c) Cost Centre 	08
Q.4	 Answer any Two of the following. a) Write down objective of Cost Accounting. b) Explain the relation between SSI and LSI. c) Explain the advantages of Costing. 	08
Q.5	 Answer any one of the following. a) Explain the role and responsibilities of Project Manager. b) Explain the MSME - Act Govt of India Recent policies regarding SSI. 	08

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023 INDUSTRIAL CHEMISTRY (Paper – III)

			INDUSTRIAL CHEMIS Fundamentals of Physica	TR	Y (Paper – III)
			ursday, 22-06-2023 1 To 02:00 PM		Max. Marks: 40
Instr	uctio	3) All questions are compulsory. 2) Figures to the right indicate full r 3) Draw neat diagrams and give ed 4) Use of logarithmic table and calc (At. Wts H=1, C=12, 0=16, N=14)	quati culat	ons wherever necessary. or is allowed.
Q.1	Cho 1)	Rea pse	the correct alternatives from the ction which are bimolecular yet foludo unimolecular reaction. Zero Second	lowi	ions. ng order kinetics are called First Third
	2)	a)	reciprocal of viscosity is called surface tension Fluidity		fractional resistance none of these
	3)	a)	e- Thomson expansion of an idea Heating no change in temperature	b)	produces Cooling none of these
	4)	The a) c)	number of moles of solute in one Normality mole fraction		of solution is called as Molality Molarity
	5)	a) b) c)	e of reaction increases with increase in tempe decrease with increase in temper is independent on temperature is independent of concentration		
	6)		temperature at which a real gas of range of pressure is critical temperature reduced temperature	beys b) d)	s the ideal gas behaviour over a Boyle's temperature inversion temperature
	7)	Mole a) c)	ecularity never be Zero Infinity	b)	Negative all of these
	8)	The a) c)	unit of first order rate constant are mole dm ⁻³ s ⁻¹	b) d)	$\frac{1}{2}$ dm ³ mole ⁻¹ s ⁻¹ s ⁺¹

Q.2	Ans a) b) c) d) e)	what is mean by rate of reaction? Write Van der Waals equation. Mention Macleod's formula for parachor. Define molecular weight and equivalent weight. What are the advantages of stalagmometer or drop-pipette? Define second order reaction with example.	08
Q.3	a)	ite short notes on any two of the following. Factors affecting the rate of reaction Andrew's isotherm of CO ₂ Mole fraction and atomic fraction	08
Q.4	Ansa) b) c)	swers any two of the following. Explain in detail Joule Thomson effect. Explain zero order reaction with its example. Explain molarity and molality with example.	08
Q.5	An: a) b)	swers any one of the following. Explain Drop - Weight method for determination of surface tension. Determine the rate constant for first order reaction. Write any two characteristics of first order reaction.	08

Seat No.	Set P
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B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023

			INDUSTRIAL CHE	MISTRY	['] (Ра	per – IV)	
			Fundamentals of Anal day, 23-06-2023	yticai C	nem	Max. Mar	ks: 40
Time	: 12:00) PM	To 02:00 PM				
Instr	uctior	2)	All questions are compulsor Draw neat labeled diagrams Figures to the right indicate	whereve		essary.	
Q.1	_		ne correct alternative from	•	n.		08
	1)		enthalpy can be defined as _	•		= 51/	
		a) c)	H= E + PV H= E - TS		b) d)	H= E - PV H= E + TS	
	2)	,		l oon ho u	,		
	2)	a)	ch of the following compound NaOH	i can be u	b)	NaHCO₃	
		c)	A1(OH) ₃		d)	Na ₂ SO ₄	
	3)	Fffic	iency of an engine is always		•		
	٠,	a)	Greater than unity		b)	Less than unity	
		c)	Equal to unity		d)	Always zero	
	4)	Whic	ch of the following substance	can be u	sed a	s an anti-knocking agent?	
		a)	Tetra ethyl lead		p)	Lead tetrachloride	
		c)	Lead nitrate		d)	Lead acetate	
	5)		ine number 100 has been as	signed to			
		a) c)	n-heptane 2,2-dimethyl pentane		b) d)	iso-octane neohexane	
	6)	,	ch of the following polymers	are the ev	,		
	0)	a)	Polyethylene		b)	PVC	
		c)	Polystyrene		ď)	all of these	
	7)	Bake	elite is an example of	polymers.			
	-		Condensation	-	,	Addition	
		c)	Cross linked		d)	All the above	
	8)		relation between Cp and Cv	is correct			
		a) c)	Cp + Cv = R Cp/Cv = R		b) d)	Cp - Cv = R $Cp \times Cv = R$	
		C)	Cp/Cv= K		u)	Cp x Cv = K	
Q.2	Ansv	ver a	ny four of the following.				08
	-		is refining of petroleum?				
	•		on any two antacids. e molar heat capacity.				
	-		are the major adulterations	in milk?			
	-	Defin	e				
		,	Octane number	,	ash p		
	f) Give the statement of second law of thermodynamics.						

SL	R-Q	D-32

Q.3	Wri	te short notes on any two of the following.	08
	a)	Types of fuel	
	b)	Chemical composition of milk	
	c)	Joule Thompson effect	
Q.4	Ans	swer any two of the following.	08
	a)	Explain the chemistry of nylon-66.	
	b)	Write on Diesel and residual oil.	
	c)	Describe Carnot's cycle and its efficiency.	
Q.5	Ans	swer any one of the following.	08
	a)	What are the essential nutrients required for the plants? Give their	
	,	classification with examples.	
	b)	Discuss in detail the condensation polymers.	

Seat	Set	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023

			INDUSTRIAL MICR Fundamentals of Industria			
			urday, 01-07-2023 To 02:00 PM			Max. Marks: 40
Instr	uctior	2)	All questions are compulsory. Draw neat labeled diagrams who rigures to the right indicate full r			
Q.1	Choo 1)		ne correct alternative and rewri eller in the fermenter is used for _ Mixing the media Supplying gases			08
	2)		ary screening of amylase produc Alcohol Sulfuric acid	er is o b) d)	detected by lodine Hydrochloric acid	
	3)	Sulfi a) c)	te waste liquor is obtained from _ Corn Sugar	b) d)	industry. dairy Paper and pulp	
	4)	Lard a) c)	oil is example of Anti foam agent Precursor	b) d)	Vitamin Growth factor	
	5)	Heata) c)	t sensitive media components are Autoclave Filtration	e steri b) d)	lized using Hot air oven Boiling	
	6)	Antik a) c)	oiotic assay is the example of Growth assay Metabolic response assay	b)	Chemical assay Growth inhibition assa	ıy
	7)	Star a) c)	ter culture in fermentation is knov inoculum downstream processing	vn as b) d)	broth filtration	
	8)	Typi a) c)	cal growth curve is observed in _ Continuous Chemostat	b) d)	fermentation. Batch Turbidostat	
Q.2	a) b) c) d) e)	What What What What What	a short, any four of the followin is whey? is impeller? is lag phase? is rDNA technology? is chemostat?	g.		08

			SLR-QD-33
Q.3	Wria) b)	te short notes on any two of the following. Secondary screening Turbidometric assay	08
	c)	Continuous sterilization	
Q.4	Ans a) b) c)	wer any Two of the following. Write in detail on Inoculum development. Describe in detail raw materials used in fermentation media. Describe in detail strain improvement methods.	08
Q.5	Ans a) b)	swer any one of the following. Describe in detail Continuous fermentation. Explain in detail Design of Fermenter.	08

Seat No.							Set	Р
В	.Sc.	. (Entr	epreneu	rship) (Semesto March/Ap	-	(Old) (CBCS) Examina 123	ation:	
		Daa		TRIAL MICROE		` '		
Day &	Date		les techi lay, 02-07-	•	triai i	Aicrobiology (EN207) Max	. Marks	: 40
•			o 02:00 Pl			····az	· · · · · ·	
Instru	ctio	2) F	igures to t	s are compulsory. he right indicate fu diagrams wherever				
	Choo			Iternatives from tream processing.	he opt	ions.		80
		,	ledia Scree roduct reco	_	b) d)	Media formulation Inoculum preparation		
	2)			dustry maintenanc	e cost	varies from% of the		
		capital			L .\	4.0		
		a) 40 c) 50			b) d)	4-8 1-2		
	3)		is not the p	ohysical method for	r cell ra	apturing.		
		,	nzymatic omogeniza	ation	b) d)	Milling Ultrasonication		
	4)		_	-	_	eased of the body.		
		,	lood press hyroid	uie	b) d)	Cholesterol Temperature		
	5)		is primary	treatment of efflue	nt from	fermentation industry.		
			ctivated slu xidation po	udge onds	b) d)	=		
	6)	Initial u	use of com	puter in fermentation	on tech	nology was done by		
		,	ill Gates inoshita et	al	b) d)			
	7)		_			by chromatography.		
		,	on exchang dsorption	е	b) d)	Affinity Thin layer		
	8)	-	-	luent, incubation is	,	d out at °C temperatu	ure.	
	=	a) 3	7		b)	10		
		c) 4	ບ		d)	20		

		SLR-QI)-34
Q.2	An a) b) c) d) e) f)	what is LAL test? Define COD. Define Quality Assurance. What is sterility testing? What is market potential of product? Define Chromatography.	08
Q.3	Wr a) b) c)	ite short notes on any Two of the following. Cell disruption methods BOD test Product recovery cost	08
Q.4	An a) b) c)	swers any Two of the following. Describe recovery of product by solvent extraction. Describe various factors affecting fermentation economics. Describe in brief various tests for quality control of fermentation product.	08
Q.5	An a) b)	swers any One of the following. Describe various methods of effluent treatment. Describe in detail computerized fermenter control.	08

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023

			INDUSTRIAL BIOTECHNOI Basics of Biomolecu	_OG	• •		
			nday, 03-07-2023 To 02:00 PM			Max. N	larks: 40
Instr	uction		All questions are compulsory. Figures to the right indicate full mar	ks.			
 Q.1 Rewrite the following sentences by choosing the correct alternation 1) Allosteric enzymes are a) smaller than simple enzymes b) smaller than simple enzymes but not complex c) larger than simple enzymes d) larger and more complex than simple enzyme 					nplex	ve.	08
	2)	a) c)	is the general formula of Carbohy (C ₆ H ₂ O)n (C ₄ H ₂ O)n	drate b) d)	s. (CH ₂ O)n (C ₂ H ₂ O)n COOH		
	3)	a) c)	is an oligosaccharide linked to pro Glycolipid Galactoside	otein. b) d)	Ganglioside Glycoprotein		
	4)	Amir a) b) c) d)	no acids with aromatic side chains an phenylalanine, tryptophan, tyrosine phenylalanine, tryptophan, serine tryptophan, asparagine, tyrosine tryptophan, threonine, tyrosine	e			
	5)	ATP a) c)	is a nucleic acid nucleoside	b) d)	vitamin nucleotide		
	6)	a) c)	vitamin helps in blood clotting. Vitamin C Vitamin A	b) d)	Vitamin D Vitamin K		
	7)	a) c)	is a fat-soluble vitamin. Vitamin B Vitamin K	b) d)	Vitamin B ₁₂ Vitamin C		
	8)	The a) c)	bond between amino is called Peptide bond Ionic bond	 b) d)	Hydrogen bond Acidic bond		

Q.2	a) b) c) d)	ewer Any four of the following. Protein Purification Enzyme activity Glycolipids Enlist fat soluble vitamins Prostaglandins Coenzyme	30
Q.3	Write a) b) c)	te short notes on any two of the following. Differentiate between denaturation and renaturation of DNA Write a note on Homo & Hetero Polysaccharides. Explain Glycoprotein's and their biological functions.	08
Q.4	Ans a) b) c)	wer any two of the following. Write a note on types of proteins and their classification. Explain Nucleosides and Nucleotides. Add a note on Cholesterol.	30
Q.5	Ans a) b)	wer any one of the following. Write a note on different level of structural organization of proteins. Explain physical & chemical properties of Nucleic acids.	30

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination: March/April-2023 INDUSTRIAL BIOTECHNOLOGY (Paper-IV) Basics of Metabolism (FN209)

			INDUSTRIAL BIO Basics of N		• • •	
•			iesday, 04-07-2023 И То 02:00 РМ		M	ax. Marks: 40
Instr	uctio	3) All questions are compute?) Figures to the right indices) Draw neat diagrams and Use of logarithmic table (At. Wts H=1, C=12, O=	ate full mark d give equati and calculat	ons wherever necessary. or is allowed.	
Q.1	Cho 1)	Che	the correct alternatives formical compounds involved Metabolites Catabolites	d in the proc		08 vn as
	2)	Nun a) c)	nber of CO ₂ produced duri 1 2	b)	fermentation are 10 2.5	
	3)	a)	oxidation of fatty acid occu Endoplasmic reticulum Nucleus	b)	which cell organelle? Mitochondria Cell membrane	
	4)	a)	aptonuria is due to deficien homogentisic acid oxidas alpha glucosidase	se b)		se
	5)	a)	ch pyrimidine base contair Cytosine Uracil		group at carbon 4? Thymine Adenine	
	6)		ch of the following are prin Amino acids Both a and b	•	lites? Vitamins None of the above	
	7)	Trar a) b) c) d)	nsamination is the process carboxyl group is transfer α - amino group is remove polymerisation of amino a None of these	rred from an	nino acid amino acid	
	8)	Whi a) c)	ch of the following cycle sł Glyoxylate Glycolysis	nows amphil b) d)	oolic pathway? Citric acid cycle Lipid metabolism	

Q.2	An	swer any FOUR of the following.	08
	a)b)c)d)e)f)	Define secondary metabolism. Explain the significance of ketogenesis. Define futile cycle. Define biologically active amines. Name the two enzymes involved in salvage pathway of purines. Define standard free energy change.	
Q.3	Wria) b) c)	ite short notes on any TWO of the following. Metabolic roles of ATP-Phosphoryl group transfer. Glycolysis β -oxidation of saturated fatty acid.	08
Q.4	Ansa) b) c)	swer any TWO of the following. Explain Urea cycle. Describe about Lesch- Nyhan syndrome. Explain the four irreversible steps of gluconeogenesis.	80
Q.5	An: a) b)	swers any ONE of the following. Explain in detail Citric acid cycle. Explain in detail β -oxidation of polyunsaturated fatty acid.	08

Seat No.						Set	Р
	.Sc. (Ent	repreneur	ship) (Semester	- III) (ا (New) (CBCS) Examination	:
		•	-	March/Apri ITREPRENEURS	il-202	23	
Pri	ncip	les d			`	siness Organization (EN30	1)
•			nday, 03-07 [.] To 11:00 Al			Max. Marks	s: 40
Instru	ıction	2)	Draw neat o	s are compulsory. liagrams and give eq ne right indicate full n		ns wherever necessary.	
Q.1	Multi 1)	-	choice ques ch of the foll Planning	tions. owing is not a function	on of n	nanagement? Staffing	08
		c)	Co-operation	on	d)	Controlling	
	2)	Hen a) c)	ry Fayol was Social scie Accountant	ntists	b) d)	Mining engineer Production engineer	
	3)	runn a) c)	ing of an org Planning	es one of the concept ganization. Name that e options are correct	t cond b)	t is crucial for the smooth cept. Management Coordination	
	4)		mined. Developing Setting up (Evaluating	Premises	f action	and cons of each alternative is	
	5)	then a) c)		ntarily towards the ac		chavior of people by making ment of organizational goals. Communication Motivation	
	6)		espond to pr	imary needs. zation Needs	erarcl b) d)	ny of motivation theory and Basic Physiological Needs Belonging Needs	
	7)			tions prepare a settir on in the organization	-	action, name the function that Organizing Directing	
	8)		in the group: Autocratic I	s in order to establish		superior uses file forces from rol. Democratic leadership Authoritarian leadership	

		SLR-QD-37
Q.2	 Answer any four of the following. 1) Define of control. 2) Define Directing. 3) Define Business Management. 4) Define Motivation. 5) Define Leadership. 6) Define staffing. 	08
Q.3	 Write short notes any two of the following. 1) Explain nature and scope of Business Management. 2) Define Business Planning and its features. 3) Define Leadership its importance. 	08
Q.4	 Answer any Two of the following. 1) Describe functions and qualities of leader. 2) Explain nature of decision and strategic decision. 3) Difference Leadership and Motivation 	08
Q.5	 Answer any One of the following. 1) Define Planning Process and types of Planning. 2) Explain X, Y & Z Theory of motivation. 	08

Seat No. Set	P
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D		March/Apri	•	. , ,	
		ENTREPRENEURS			
		Advanced Accountancy		` ' '	
_		e: Tuesday, 04-07-2023 00 AM To 11:00 AM		Max. Marks:	40
Instr	uctio	ns: 1) All questions are compulsory.			
		2) Figures to the right indicate full r 3) Draw neat diagrams and give ed 4) Use of logarithmic table and calc	_l uati	ons wherever necessary.	
Q.1	Cho 1)	ose the correct alternatives from the Which shortcut key is used in Compan features of Tally?	•		80
		a) F1 c) F3	b) d)	F2 F4	
	2)	Which option is used to open company	/ Cre	eated in Tally?	
		a) Create Companyc) Select Company	b) d)	Alter Shut company	
	3)	Tally package is developed by			
		a) Peutronicsc) Card Software	b) d)	Tally Solution Vedika Software	
	4)	Which submenu is used for voucher enally Voucher c) A/cing Information	ntry b) d)	in Tally? Accounting Voucher None of these	
	5)	BRS stands for a) Bank Reconciliation Statement c) Big Reconciliation Statement	b) d)	Better Record Statement Browse Record Statement	
	6)	CFS stands for			
		a) Credit Flow Statementc) Current Flow Statement	b) d)	Cash Flow statement Count Flow Statement	
	7)	is a Type of Audit.			
		a) Internal Audit	b)	Cash Audit	
		c) Mid Audit	d)	None of these	
	8)	GST stands for a) Goods and Service Tax c) Goals and Service Tax	b) d)	Goods and Sales Tax Guide and Security Tax	
Q.2	Ans	wer any four of the following.			08
~. -	a) b)	Draw a format of Journal Transaction Charitable Trust			

- c) Charitable Trustd) Value Added Tax
- Audit Report

Q.3	 Write short notes on any Two of the following. a) Final Account b) Fund Flow Statement c) Types of Audit 	08
Q.4	 Answer any two of the following. a) Write down advantages of Tally. b) Benefit of Insurance. c) Write down types function key in Tally. 	08
Q.5	 Answers any one of the following. a) What is Account? Explain the types and rules of Account with example. b) Write down special features of Audit of Co-Operative Societies. 	80

Seat No.						Set	P
В			INDU	March// JSTRIAL CHE	April-20 MISTR	Y (Paper – V)	:
	k Date	e: We	dnesday, 05 To 11:00 AM	-07-2023	o or into	rganic Chemistry (EN303) Max. Marks	s: 40
Instru	uction	2)	Figures to to Draw neat	s are compulsor he right indicate abelled diagram rithmic table and	full mark s must be	e drawn wherever necessary.	
Q.1	Mult 1)	•	0.1 to 1 mid	rystalline precipi		0.02 to 0.1 micron none of the above	08
	2)	Chro a) c)	omium is goo self-healing alloying	od metal.	b) d)	Passivators none of the above	
	3)	a) c)	_ is called as H₂S0₄ Caustic pot	s king of chemica ash	als. b) d)	(NH ₄) ₂ SO ₄ Perchloric acid	
	4)	The a) c)	catalytic rea oxide base	ctions caused by	/ ar b) d)	e called acid catalysis. alcohol acid	
	5)	a) c)	_ is essentia Liquid Water	I for corrosion.	b) d)	Gases Solid	
	6)	For t a) c)	the best yield 3:1 1:3	d of ammonia, th	e concer b) d)	ntration of N ₂ :H ₂ is 1:1 3:2	
	7)	The is a) c)	•	alysis	of the pro b) d)	duct enhance the rate of reaction negative catalysis auto catalysis	
	8)	Pass a) c)	sivity is occu high emf low emf	r due to	b) d)	oxide film all above	
Q.2	Ansv 1) 2) 3)	Draw Defin Write	the structure precipitan	ne following. e of phenolphthat t and precipitate. n conditions of C		ocess for manufacture of	08
		What Write	is the role of			s? tals from corrosion.	

		SLR-QI	D-39
Q.3	Wri	te short notes on any two of the following.	08
	1)	Industrial application of catalysis	
	2)	Post precipitation	
	3)	Types of corrosion	
	4)	Quniod theory	
Q.4	Ans	swer any Two of the following.	08
	1)	Discuss the intermediate compound formation theory.	
	2)	What are conditions for precipitate?	
	3)	Explain electrochemical theory.	
Q.5	Ans	swer any one of the following.	08
	1)	Explain choice of an indicator for titration between weak acid and strong base with the help of neutralization curve.	
	2)	Discuss in detail manufacture of sodium carbonate by Solvay's process.	

Seat No.	Set P
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B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2023

				MApril-202	
	Δι	nalví	INDUSTRIAL CH		ganic Chemistry (EN304)
	& Date	e: Thu	ursday, 06-07-2023 To 11:00 AM		Max. Marks: 40
Instr	uction		All questions are compulso Figures to the right indicate	-	
Q.1	Mult 1)	Soa	choice questions. ps are alkali metal salts of h	•	
		a) c)	fatty acid alkenes	b) d)	bases phenols
	2)	In su a)	ulphitation process	gas is passo b)	ed. N ₂
		,	SO ₂	d)	H ₂
	3)		is natural fiber. Nylon – 6 Plastic	b) d)	Nylon 66 Wool
	4)	Pyre a) c)	ethroids are naturali antibiotic fumigant	nsecticides b) d)	contact acidic
	5)		hoxychlor is prepared by co 	ndensation	of chloral with 2 molecules
		a)		b) d)	∝ –naphthol Phenol
	6)	Out a) c)	of following is non so NH4 OH ethanol amines		kali. Na₂CO₃ All of these
	7)	Rem a) c)	noval of starch material in te sizing desizing	extile industi b) d)	ry is process. singing tanning
	8)	Agro a) c)	ochemicals are used to improve quality pest control	b) d)	increase quantity all of these
Q.2	1) 2) 3) 4)	Defin Draw Nam Defin Give	ny four of following. The saponification with reaction neat labeled diagram of celle different dyes process. The CNS drug, give its example synthesis of carbaryl. The uses of Indole – 3 – acetic	entrifugal ma	achine.

Q.3	Write short notes on any two.1) Byproducts of sugar industry2) Classification of fibers3) Qualities of good drug	08
Q.4	 Answer any two of following. 1) Name 4 properties of sizing ingredient. 2) Give synthesis of paludrine. 3) Explain in short pyrethroids. 	08
Q.5	Answer any one of following.1) Explain the process of manufacture of soap by Hot process.2) How will you manufacture of alcohol from molasses.	08

No. Set P	Seat No.	Set	P
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B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination-

		•	March/April MICROBIAL BIOTECHN Genetics (E	OL	DGY (Paper – V)	
-			lay, 07-07-2023 To 11:00 AM	.145	Max. Ma	arks: 40
Instr	uctior	2) 3) 4)	All questions are compulsory. Draw neat diagrams and give ed Figures to the right indicate full r Use if logarithmic table and calc At. Wts.: H=1, C=12, O=16, N=14	nark ulato	s. or is allowed.	
Q.1	Choo 1)		ne correct alternatives and rew del took contrasting chara five seven			08
	2)	A ful a) c)	lly expressed allele is referred to a Dominant Heterozygous	as _ b) d)	Recessive Homologous	
	3)	Dam a) c)	nage and errors in DNA cause DNA repair Transcription	b) d)	Translation Mutation	
	4)	The a) c)	IS elements can be identified by Antibiotic resistance gene Integrase Site	b)		
	5)	Intro a) c)	duction of DNA molecules into th Translation Transduction		cipient organism is termed as _ Transformation Transcription	·
	6)		process of transfer of characters S Inheritance Heritage	fron b) d)	n parents to offspring is referred Variation Genetics	
	7)	The a) c)	ratio of complementary gene inte 15:1 9:7		on is 9:3:3:1 1:2:1	
	8)	Link a) c)	age as the distance betwe Decreases, decreases Increases, increases		Unaffected, decreases	
Q.2	a)	Defin	ny four of the following: e Crossing Over. in Law of Dominance.			08

- c) Enlist Mutagenic agent

	e) f)	Explain Recombination Explain Fate of exogenote.	
Q.3	Wria) b) c)	te short notes on any two of the following: Explain Law of Co-dominance and Incomplete dominance with suitable example. Define Chromosome and explain types of Chromosomes. Define and explain Chromosomal aberration with its types.	08
Q.4	Ans a) b) c)	wer any two of the following: Define Transposable elements and explain its types. Add a detail note on Mendel's experiment. Explain factors affecting crossing over.	80
Q.5	Ans a) b)	swer any one of the following: Define and explain the process of Conjugation in detail. What is Epistasis? Explain Complementary Gene Interaction.	08

d) Draw structure of Chromosome.

Seat	Sat	D
No.	Set	L

B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2023 MICROBIAL BIOTECHNOLOGY (Paper - VI) Fermentation Technology (FN306)

			Fermentation Tech	nolo	gy (EN306)	
-			urday, 08-07-2023 To 11:00 AM		Max. Marks	: 40
Instr	uctior	2)	All questions are compulsory. Figures to the right indicate full r Draw a neat diagram wherever i			
Q.1	Choo 1)		ne correct alternatives from the is major gas produced during	g bioga	as formation.	80
		a) c)	Butane Methane	b) d)	Ethane CNG	
	2)	Mola a) c)	asses is used for production of _ Alcohol Biogas	 b) d)	Sugar Antibiotic	
	3)	a) c)	is used for production of bioin E. coli B. subtilis	sectici b) d)	de. S. aureus B. thuringiensis	
	4)	a) c)	_ is added as a precursor during Zinc Cobalt	vitami b) d)	J	
	5)	Malt a) c)	used for beer fermentation is pr Ground Nut Barley	epared b) d)	from Peanut Grape juice	
	6)	Peni a) c)	cillin is an example ofantib Narrow spectrum Non spectrum		Broad spectrum Whole spectrum	
	7)	Bact a) c)	eria used for SCP production ap 10-20 50-80	proxim b) d)	nately contain% protein. 4-8 1-5	
	8)	Lysii a) c)	ne fermentation is carried by usin Aspergillus Niger Corynebacterium glutamicum	ng b) d)	 Aspergillus Oryzae Pen-chrysogenum	
Q.2	a) b) c) d)	Whic What Whic Defin	ny Four of the following: h medium is used for streptomyo is full form of PHB? h method is used for recovery of e Biofertilizer. h is substrate for Amylase enzyn	Alcoh		08
	•		is Riofuel?			

Q.3	Wr a) b) c)	ite short notes on any Two of the following. Rhizobium as a biofertilizer. Citric acid production. Biogas production.	08
Q.4	An a) b) c)	swer any Two of the following. Describe in brief production and applications of Bioinsecticide. Production of SCP. Describe in brief amylase production.	08
Q.5	An a) b)	swer any One of the following. Describe in detail Penicillin fermentation. Describe in detail Wine production from grapes.	08

		3LR-QD-4.
Seat No.	t	Set F
В	.Sc.	Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2023 Entrepreneurship (Paper – VII) Corporate Accounting & Professional Ethics (EN401)
		: Monday, 19-06-2023 Max. Marks: 4) AM To 11:00 AM
Instr	uctio	s: 1) All questions are compulsory.2) Figures to the right indicate full marks.
Q.1	Mult 1)	Pole choice questions. An issue of shares that is not a public issue but offered to a selected group of persons is called a) Public offer b) Private placement of shares
	2)	 c) Initial public offer d) None of the above Forfeiture of shares results in the reduction of a) Paid-up capital b) Authorized capital c) Fixed assets d) Reserve capital
	3)	Which of these is not a component of the final accounts? a) Balance sheet b) Trading Account c) Profit and Loss Sheet d) Transaction receipts
	4)	A balance sheet a) Tabulates the assets and liabilities of the company on a date b) Shows assets and liabilities of a company c) Indicates the growth rate of the company d) Both a and b
	5)	A company can be liquidated in any of following ways under the Companies Act, 2013 after 1-4-2017 a) Compulsory winding-up by the Tribunal b) Voluntary winding-up by the Members or Creditors c) Winding-up under the supervision of the Court d) All of the above
	6)	Amount of calls in advance is treated as

a) Secured creditor

7)

8)

b)

c) d)

a)

c)

Preferential creditor

Three C's of business ethic are __

Caring, Confidentiality

Utilitarian approach

Fairness approach

Compliance, Contribution, Consequences Complications, Contribution, Consequences

Compliance, Comfort, Consequences Compliance

follows the ethics for welfare of everyone in the society.

b) Asset not specifically pledged

d) Unsecured creditor

b) Virtue approach

d) Common good approach

Q.2 Answer any four of the following.

- a) Define forfeiture of Shares.
- **b)** Define Morality.
- c) Define code of conduct.
- d) Define liquidation of Companies.
- e) Define Intrinsic Value Method.
- f) Define Globalization.

Q.3 Write short notes on any two of the following

80

80

- a) Explain Factors Facilitating Globalization.
- **b)** Define Corporate Governance, Corporate culture
- c) The following is the Balance Sheet of M/s. Mahindra Ltd., as at 31-3-2013.

Liability	Rs	Assets	Rs
Share Capital: Authorized		Fixed Assets:	
50,000 8% Cumulative Preference	5,00,000	Land and Building	2,20,000
Shares of' 10 each			
40,000 Equity Shares of 10 each	4,00,000	Plant and Machinery	4,40,000
Issued and Fully Paid up:		Furniture	80,000
40,000 8% Cumulative Preference	4,00,000		
Shares of' 10 each		Current Assets:	
30,000 Equity shares of 10 each	3,00,000	Stock in Trade	3,10,000
General Reserve	1,10,000	Debtors	3,50,000
Profit and Loss A/c	1,00,000	Cash and Bank	1,70,000
		Balance	
Current Liabilities and		Miscellaneous	
Provision: Current Liabilities	1,00,000	Expenditure:	
Provision for Depreciation	4,55,000	Deferred Advertising	70,000
		Expenses	
Provision for Taxation	90,000		
Proposed Dividend	85,000		
	16,40,000		16,40,000

Year	Turnover	Net Profit	% of Dividend on Equity Shares
2009-2010	3120000	305000	15%
2010-2011	4044000	450000	15%
2011-2012	5000000	560000	15%

Q.4 Answer any two of the following

80

- a) Describe Role of MNC.
- b) Define Personal & Business Ethics.
- c) A holds 10 shares of \$10 each, on which he has paid \$1 per share as application money.

B holds 20 shares of \$10 each, on which he has paid \$1 on application, \$2 on an allotment, and \$2 on the first call.

C holds 30 shares of \$10 each and has paid \$1 on application, \$2 on an allotment, and \$2 on the first call.

They all fail to pay their arrears and the second call of \$2 per share. Therefore, the directors forfeited their shares. The shares of C were then reissued at \$7 per share as fully paid up.

Pass necessary journal entries of forfeiture and reissue of shares.

08

- Q.5 Answer any one of the following.
 - a) Describe need & importance of valuation of share.
 - **b)** Shri A.B. Govindan is appointed liquidator of a company in liquidation on 1st July, 2016 and the following balances are extracted from the books on that date.

Particular	Rs.	Particular	Rs.
Capital:		Machinery	30,000
8,000 shares of 10 each	80,000	Leasehold Properties	40,000
Debentures Bank	30,000	Stock-in-trade	1,000
Overdraft Liabilities for	20,000	Book Debts	60,000
Purchases Provision for	43,000	Investments	6,000
Bad Debts	5,000	Calls in Arrear	5,000
		Cash in hand	1,000
		Profit and Loss	35,000
		Account	
	1,78,000		1,78,000

Prepare a statement of affairs to be submitted to the meeting of the creditors. The Machinery is valued at' 60,000, the Leasehold Properties at' 73,000, Investments at' 4,000, Stock-in-trade at ' 2,000; bad debts are ' 2,000, doubtful debts are ' 4,000 estimated to realise ' 2,000. The Bank Overdraft is secured by deposit of title deeds of Leasehold Properties. Preferential creditors for taxes and wages are ' 1,000. Telephone rent owing is ' 80.

Seat No.						Set	Р
В	S.Sc.		rship) (Semest March/A Entrepreneursh	pril-202		nation:	
			-		ng Decision (EN402)		
		e: Tuesday, 20-0 0 AM To 11:00 A	6-2023		• •	x. Marks	: 40
Instru	uction	2) Figures to t3) Draw neat	ns are compulsory. The right indicate fu labelled diagrams v table and Calculato	wherever			
Q.1	Choo 1)		alternatives from sually lasts the long		ons. product's life cycle. Introduction Maturity		08
	2)	·	iod of market acce evelopment	ptance aı b) d)	nd increasing profits. Maturity Introduction		
	3)	a) market fluo		arkets int b) d)	to several sub market is _ market positioning market penetration	·	
	4)	Manufacturer -> a) Zero c) Two	Consumer is an e	example f b) d)	or level channel. One Three		
	5)	Which of the fol a) Wholesale c) Manufactu		sidered a b) d)	type of reseller? Retailer Distributor		
	6)	,		,	g is/are Economic factors All of these		
	7)		personal consump behavior	•	or people who purchase of Consumer interest Consumer perception	joods	
	8)	Fixing a high pr a) price skim c) dual pricin	•	uct will be b) d)	called as price segmentation customary pricing		
Q.2	a) b) c) d)	ver Any Four of Define global ma What is price sel What is letter of What is positioni Define internet n	arketing. nsitivity? credit? ng?				08

Define is bill of lading.

			SLR-QD-44
Q.3	An a) b) c)	swer any two of the following. Explain factors influencing price decision. Explain functions of whole seller. Determinants of consumer behavior.	08
Q.4	_	swer any two of the following. Explain types of product.	08
	a) b) c)	Explain types of product. Explain buying process. Explain types of distribution channel.	
Q.5	,	swer any one of the following. Explain steps in import or export. Stages in product life cycle.	08

Seat No.		Set	P		
В.	.Sc.	(Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2023 INDUSTRIAL CHEMISTRY (Paper – VII)			
	Analytical & Industrial Aspects of Physical Chemistry (EN403) Day & Date: Wednesday, 21-06-2023 Time: 09:00 AM To 11:00 AM Max. Marks: 40				
Instru	uctio	 2) Figures to the right indicate full marks. 3) Draw neat labelled diagrams must be drawn wherever necessary. 4) Use of log table and calculator is allowed. 			
Q.1	Muli 1)	Itiple choice questions. The ratio of intensity of transmitted light to that of incident light is known as a) Transmittance b) Absorbance c) Opacity d) None	80		
	2)	To determine cell constant electrolyte is used. a) NaCl b) CuCl c) ZnCl ₂ d) KCl			
	3)	fuel oxidant combination provides highest flame temperature. a) Propane air b) Acetylene - air c) Acetylene - oxygen d) Hydrogen - air			
	4)	Conductance of solution depends on of ions. a) Number b) Speed c) Mobility d) All			
	5)	The relation Eo = E ^{OG} + 0.0591 P ^H gives the potential of electrode. a) Calomel b) Glass c) Quinhydrone d) Hydrogen			
	6)	The sum of transport number of canon & anion is a) 0			
	7)	Which of the following is not strong electrolyte? a) NaCl b) NH ₄ OH c) A _g NO ₃ d) KCl			
	8)	The specific conductivity of conductivity water is a) 10^{-3} b) 10^3 c) 10^6 d) 10^{-6}			
	Ans a) b) c) d) e) f)	Define buffer & mention its type. Define optical density & transmittance. Give advantage of potentiometer methods. Give are limitations of flame photometry. What is cell constant? Give its unit. How conductivity water is prepared.	08		

SLF	₹-Q	D-45
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Q.3	Wria) b) c)	te short notes on any two. (Any Two) One method for locating end point of potentiometric titrations. Construction & working of photovoltaic cell. Cell constant name methods to determine cell constant.	08
Q.4	Ans a)	wer any two of following. What is buffer solution? Write Henderson's equation for acidic & basic buffer.	80
	b) c)	Draw circuit diagram & explain about direct reading potentiometer. Explain deviations from Beer's law.	
Q.5	Ans a) b)	wer any one of the following. Explain conductometer titration between strong aid & strong base. Explain in detail Hittorf's rule.	80

Seat No.	Set	Р
No.	Set	

B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2023

			INDUSTRIAL CHEMIS Industrial Aspects of Appli		• •
-			nursday, 22-06-2023 // To 11:00 AM		Max. Marks: 40
Instr	uctio	2) All questions are compulsory. 2) Figures to the right indicate full (3) Draw neat labelled diagrams wh		
Q.1	Cho	ose	the correct alternatives from the	e opt	ions. 08
	1)	Amı	monium sulphate contains%	% of r	nitrogen.
		,	21	b)	18
		c)	14	d)	10
	2)	The	process of cleaning article in acid	l is _	
		a)	Washing	b)	•
		c)	Moulding	d)	Tumbling
	3)	The	process in which coating of oxide	film	on surface of aluminium & its
		allo	y is		
		a)	Electrolysis	b)	Coating
		c)	Anodizing	d)	Protection
	4)	In e	lectrolysis the electrodeposition ta	kes	place at
		a)	Anode	b)	Glass electrode
		c)	Platinum electrode	d)	Cathode
	5)	Opt	ical glass is known as		
		a)	Crookers	b)	Soft
		c)	Staple	d)	Hard
	6)		is added to slow down the rate	of se	etting of cement.
		a)	CaO	b)	MgO
		c)	CaSO ₄ .2H ₂ O	ď)	SiO ₂
	7)	The	upper part of blast furnace is called	ed as	s
	•	a)	Heart	b)	Throat
		c)	Body	d)	Well
	8)	Ure	a has highest percentage of		
	-,	a)	H	 b)	К
		c)	Р	ď)	N

		SLR-QD-46
Q.2	 Answers any four of the following. a) Define flux and slag. b) Define native ore and oxidized ore. c) Define glass, cement. d) State Faradays law of electrolysis. e) Write basic principle of electroplating. f) What is ceramic? Give two applications. 	08
Q.3	 Write short notes on any two of the following. a) Types of glass b) Pollution caused by Fertilizers c) Froth floatation method 	08
Q.4	 Answers any two of the following. a) Explain cleaning of articles. b) Explain heat treatment of steel. c) Write the qualities of an ideal fertilizers. 	08
Q.5	 Answers any one of the following. a) Explain manufacture of steel by pot furnace. b) Extraction of iron by blast furnace. 	08

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2023 MICROBIAL BIOTECHNOLOGY (Paper - VII) Molecular Biology (EN405)

			MICROBIAL BIOTECHNO Molecular Biolog		• •	
•			day, 23-06-2023 To 11:00 AM		Max	. Marks: 40
Instr	uction	2)	All questions are compulsory. Figures to the right indicate full m Draw neat labeled diagrams when		essary.	
Q.1	Rewr 1)		he following sentences by choose the protein has subunit.	sing the	correct alternative.	08
		c)	6	d)	10	
	2)	The a) c)	sequence of the structural genes i lacA-lacZ-lacY lacZ-lacY-lacA		operon is lacA-lacY-lacZ lacZ-lacA-lacY	
	3)	The a) c)	fragments of DNA are joined toge DNA polymerase Endonuclease		enzymes. Ligase Primase	
	4)	The a) c)			DNA polymerase α	
	5)	The	bases are held together in a DNA se bonds are Covalent bonds Van der Waals forces	double h b) d)	elix by hydrogen bonds Non-covalent bonds Ionic bonds	3.
	6)		initiation codon is UAG AUG	b) d)	UAA UGA	
	7)	DNA a) b) c) d)	A replication is semi-conservative and discontinu Conservative semi-conservative and semi- disc conservative and discontinuous		S	
	8)	Lac a) b) c) d)	Operon will be turned on when Lactose is more than glucose Lactose is less in the medium Glucose is enough in the medium Lactose is less than glucose			

Q.2	Ans	swer Any four of the following.	08
	a)	Replication	
	b)	DNA structure	
	c)	RNA Polymerases	
	ď)	Trp Operon	
	e)	Central Dogma	
	f)	Direct repair	
Q.3	Wri	te short notes on any two of the following.	08
	a)	Define Translation and explain process of prokaryotic translation.	
	b)	Write a note on Enzyme involved in Replication.	
	c)	Add a note on Mismatch repair system in eukaryotes.	
Q.4	Ans	swer any two of the following.	08
	a)	Write a note on Rolling Circle Model of replication.	
	b)	Define Transcription and explain process of eukaryotic transcription.	
	c)	Add a note on RNA Polymerases.	
Q.5	Ans	swer any one of the following.	08
	a)	Write a detailed note on process of replication.	
	b)	Explain regulation of Lac operon in detail.	
	•		

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Seat No.	Set	Р
140.		

B.Sc. (Entrepreneurship) (Semester-IV) (New) (CBCS) Examination: March/April-2023 MICROBIAL BIOTECHNOLOGY (Paper – VIII) Food & Dairy Technology (EN406)

		Food & Dairy Technology (EN406)	
		Saturday, 01-07-2023 Max. Marks: 40 AM To 11:00 AM)
Instr	uction	1) All questions are compulsory.2) Figures to the right indicate full marks.3) Draw neat labeled diagrams wherever necessary.	
 Q.1 Choose the correct alternative and rewrite the sentences again. 1) As per MBRT test decolorization after 8 hours indicates that milk has quality. 			3
		a) better b) good c) excellent d) poor	
	2)	Milk contamination is possible due to a) udder b) utensils c) water d) all of these	
	3)	Cream from the milk is obtained by using a) Clarification b) Filtration c) Pasteurization d) Centrifugation	
	4)	Butter contains at least % milk fat. a) 80 b) 50 c) 30 d) 10	
	5)	Rennet is used in manufacturing of a) ice cream b) cheese c) butter d) milk	
	6)	Sodium alginate is used as in ice cream. a) emulsifiers b) stabilizer c) additives d) preservatives	
	7)	Serratia marcescens give spots in spoiled meat. a) yellow b) green c) red d) blue	
	8)	/at Pasteurization or Low temperature Holding Pasteurization is carried at a) 62°C for 30 minutes b) 72°C for 15 second c) 138°C for 2 second d) 200°C for 15 second	
Q.2	1) 2) 3) 4) 5)	Per any four of the following. /hat is optimum pH? /hat is milk? ow much energy and calcium has been obtained from 100g cream? /hich vitamin is predominant in milk butter? /hat is added for curdling of milk in the process of cheese making process? /ho maintains osmotic balance of food?	}

SLR-QD-48	3
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80

		OLIN-QD	70
Q.3	Wri	te short notes on any two of the following.	90
	1)	Phosphatase test	
	2)	Milk contamination	
	3)	Butter	
Q.4	Ans	swer any two of the following.	80
	1)	Explain in brief composition, food & nutritive value, production and uses of cream.	
	٥)	Describe in brief comments or and transport of the second of	

- 2) Describe in brief composition and types, manufacturer and uses of
- Write in brief General principles and different method of food preservation. 3)

Answer any two of the following. Q.5

- Explain in detail methods of milk pasterurization.
 Write an essay on microbial spoilage of fruits and vegetables. 2)

			73	
Seat No.		Set	Р	
В.	Sc. (Entrepreneu	rship) (Semester - V) (New) (CBCS) Examination	:	
		March/April-2023		
		ENCI ICH		

ENGLISH **Business English (EN501)** Day & Date: Sunday, 02-07-2023 Max. Marks: 40 Time: 03:00 PM To 05:00 PM **Instructions:** 1) All questions are compulsory. 2) Figures to the right indicate full marks. Q.1 **Multiple choice questions** 80 "The Gift of the Magi" is a story composed by _____. 1) a) William Shakespeare b) O Henry c) William Wordsworth d) Raja Rao 2) What did Della sell off to buy a gift for Jim? a) Hair b) Combs d) None of these Jewellery 3) Rabindranath Tagore got the Noble Prize for Literature in . . 1911 b) 1912 d) 1914 c) 1913 The central character from the story "The Homecoming" is _____. 4) b) Makhan Phatik Vishwambhar d) Sita c) "The Solitary Reaper" is a poem by __ 5) William Wordsworth b) William Shakespeare d) None of these John Donne c) 6) "The Queen's Rival' is a poem by ___ b) Sarojini Naidu a) Sri Arabindo d) None of these c) R. K. Narayan 7) When the focus is on the agent of action, it is known as _____ b) Homophones a) Passive voice Active voice d) Homographs In the sentence, "Turn down the volume of the T.V." the phrasal verb is ____. 8) a) Turn down b) Volume c) T.V. d) of Answer any Four of the following. 12 Q.2 How much did Della sell her hair for? 1) Why did Makhan sit on the log? 2) What was Queen Gulnaar's desire? 3) Where did the village school master live? 4) What is the theme of the poem "The Road Not Taken"? 5)

What is media literacy?

Q.3	Answer any One of the following.1) Why was Della sad in the beginning of the story "The Gift of the Magi"?					
	2)	Why the Queen is unsatisfied and seeks a rival in the poem "Queen's Rival"?				
Q.4		swer the following question.	10			

	_	
Seat	Cat	D
No.	Set	F

B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS)

				Examination: Marc Business Financ	•	
•				03-07-2023 6:00 PM		Max. Marks: 80
Instr	uctio	ns:	2) Drav 3) Figu	uestions are compulsory. w neat diagrams and give equres to the right indicate full more of logarithmic table and calc	narks.	·
Q.1	A)	Μ ι 1)	-	Choice Questions. ds are required for the purchase of land & building need of working capital	b)	
		2)	A Co a) c)	One Year	posits b) d)	
		3)	a)	ity finance is Short term finance Long term finance	b) d)	Medium term finance All the above
		4)	Retu a) c)	urn paid on debenture is Interest Commission	 b) d)	Dividend Tax
		5)		Rs are issued in USA Europe	b) d)	India Russia
		6)	Excl a) c)	nange rates are determined i Stock Market Money Market	b) d)	 Capital Market Foreign exchange market
		7)	Owr a) c)	er of the asset is called Lessee Lease	 b) d)	Lessor none of the above
		8)	Intei a) c)	rnational finance is concerned Long-term Decisions Both a) and (b)	d with b) d)	Short-term Decisions none of above
		9)	Cap a) c)	ital market is a market for Long term capital Working capital	b) d)	Short term capital none of above
		10) Cap a) c)	ital Budgeting deals with Long-term Decisions Both a) and (b)	 b) d)	Short-term Decisions none of above

	B)	Answer in One Sentence. 1) What is share? 2) What is bank? 3) Which bank is known as banker's bank? 4) Long Form of FEMA. 5) Long Form of BSE. 6) Long Form of SEBI.	06
Q.2	Solina) a) b) c) d) e) f) g) h) i)	ve any Eight of the following. Define Preference Shares. What is working capital? What is venture capital? What is Mutual Funds? What is credit creation? What is Spot rate? Define E-banking. Define Foreign exchange rate. Define Swap market. Define capital budgeting.	16
Q.3	A)	Attempt any Two of the following. 1) Function of commercial banks 2) Types of lease finance 3) Methods of Capital budgeting	10
	B)	Write short note. Write note on BSE and NSE.	06
Q.4	A)	Answer any Two of the following. 1) Explain importance of business finance. 2) Functions of SEBI. 3) Explain Right Issue in details.	08
	B)	Describe the following. Explain methods of issue of share.	80
Q.5	Ans a) b) c)	wer any Two of the following. What is business finance? Explain sources of business finance. What is stock exchange? Explain functions of stock exchange. What is financial planning? Explain objectives of financial planning.	16

Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: March/April-2023 Human Resource Management (EN503)

				Human Resource Manag					
•				ay, 04-07-2023 06:00 PM		Max. Marks:	80		
Instr	uctio	2) Fi	questions are compulsory. gures to the right indicate full make and labeled diagrams whe					
Q.1	A)	Cho 1)	Hu a)	the correct alternatives from man resource management en Development of people Adoption of people	npha b)	-	10		
		2)	Off a) c)	•	b)	Vestibule training All of these			
		3)	a)	ethods of job evaluation are Qualitative method Both (a) and (b)		Quantitative method None of these			
		4)	a) c)	is a factual statement of ta Job description Job evaluation		& duties involved in a job. Job specification Job Analysis			
		5)	his a)	is the systematic, periodic aployee excellence in matters potential for a better job. Performance appraisal Training and Development	ertai b)	ining to his present job and Compensation and motivation			
		6)	Tra a) c)	aditional method of performanc Free form or easy method Confidential reports	b)				
		7)	Modern method of performance appraisal are: a) Assessment centre method b) Management by objectives c) BARS (Behaviorally anchored rating scale) d) All of these						
		8)		e combination of peer, superior praisal is known as 360° appraisal System All round review	r, sul b) d)	bordinate and self-review Human resource accounting Feed forward			

		9)	be pe	etween em eriod. MBO			on g	nnique that involves agreement goals to be achieved in a given Rating scales BOS	
		10)	,	RM is	ated		b) d)	Interdependent All of these	
	B)	Ans 1) 2) 3) 4) 5) 6)	Pr as HI HI Th	rocess of s s RM is an a R focuses RM is the ne role of I	studying ar art of on process of	 or is		nks. ormation about a job is known	06
Q.2	Ans a) b) c) d) e) f) g) h) i)	Defin Defin Defin Defin Defin Defin Defin Defin	er the following. (Any Eight) efine Job Analysis. efine Job Description. efine ESI. efine Provident Fund. efine Gratuity. efine Promotion. efine Transfer. efine Training. efine Placement. efine Selection.						16
Q.3	A)	Ans 1) 2) 3)	Ex Ex	xplain Trai xplain Ste <mark>r</mark>	owing. (An ning methods in selections of H	ods. tion proces	S.		10
	B)	Write	Write short note on Elements of career development programme.						
Q.4	A)	Ans 1) 2) 3)	E)	xplain Exte xplain Role	e of HRM i	y two) ces of Recr n Organiza es of Recru	tion.		08
	B)	Expl	lain	Job Spec	ification in	detail.			08
Q.5	Ans a) b) c)	Defi Defi	ne ne	Internal M External N	Mobility and	explain its	type	s in details. es in details. details.	16

Seat No. Set I	P
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B.Sc.-III (Entrepreneurship) (Semester - V) (New) (CBCS)

		D. 00	,-III	Examination Spectroscop	: March/A	-	·)
•				day, 05-07-2023 6:00 PM	io metrice	•	ax. Marks: 80
Instr	uction	2)	Figu Dra	uestions are compulsoures to the right indicat w neat labeled diagrar of logarithmic table a	e full marks ns whereve	r necessary.	
Q.1	A)	Choo 1)		IR spectrum of ethyl a		ite the sentences again. s signals. 2 4	10
		2)	_	hest m/e peak in mas base peak isotopic peak	s spectrum b) d)	is called as fragment peak parent peak	
		3)	wa a)	nen absorption maximu velength, this phenom Hyperchromic Bathochromic		<u>-</u>	
		4)		itations by molecule c	ause chang	long wavelength radio-frede in vibrational state spin state	luency
		5)		spectroscopy is also k vibrational Raman	nown as b) d)	 Rotational electronic	
		6)	The a) c)	e characteristic freque ~3080 cm ⁻¹ ~3000 cm ⁻¹	ncy range o b) d)	f carbonyl group is 1700 cm ⁻¹ 950 cm ⁻¹	
		7)	Wh a) c)	no discovered the mas Francis Aston Ernest O. Lawrence	b)	eter? Walter Kaufmann J. J Thomson	
		8)	Acca) b) c) d)	cording to Beer- Lamb inversely proportional directly proportional t Directly proportional directly proportional t	Il to concent to concentra to transmitta	ration Ition. ance.	
		9)		cording to Hook's law on reduced mass of the decreases remains same		requency of bond increase Increases All the above	S

		10) The number of double bonds present in carotene is	
		a) 8 b) 10	
		c) 11 d) 14	
Q.2	A)	 Answer the following. 1) What is mean by J value? 2) Define electromagnetic radiation. 3) What is mean by bar graph? 4) Write the range of finger print region. 5) Define diamagnetic shielding. 6) What is mean by bathochrome? 	06
Q.2	B) a) b) c) d) e) f) g) h) i) k)	Solve Any Eight of the following. Draw the structure of TMS. What is mean by IR active transition? What is mean by magnetic and nonmagnetic nuclei? Explain Parent ion. Define bonding and non-bonding electron. Why far UV region not useful for study of organic compound? State the nitrogen rule. Explain spin splitting. Write the types of vibration. What is mean by delta scale?	16
Q.3	A)	 Write short note on any two of the following. 1) Types of electronic transition 2) Chemical shift 3) Mass spectrum 	10
	B)	How many signals do you expect in the NMR spectrum of the following compound at low resolution? i) CH ₃ -CH ₂ -Cl ii) CH ₃ -CHO iii) C ₆ H ₅ -CH ₂ -CH ₃	06
Q.4	A)	 Answer any two of the following. 1) Explain the basic principle of mass spectroscopy. 2) With suitable example, explain the shielding and deshielding effects involved in NMR Spectroscopy. 3) Explain the term chromophore. Give two examples. 	08
	B)	What is the figure print region in IR spectra? Draw the double beam IR spectrophotometer.	80
Q.5	Ans a) b) c)	wer any two of the following. Sketch the mass spectrophotometer and explain in brief it's working. Discuss in detail the applications of UV spectroscopy. Give an account of factors affecting values of vibrational frequencies.	16

		TABLE - 1			
Characteristic	Infrared	Absorptions	of	Functional	Groups

	GROUP			FREQUENCY RANGE cm ⁻¹	INTENSITY		
	Alkyl						
	C - H (stretching)			2853 - 2962	(m - s)		
	Isopropyl - CH(CH ₃) ₂			1380 - 1385	(5)		
			and	1365 - 1370	(s)		
	tert - Butyl - C (CH ₃) ₃			1385 - 1395	(m)		
				and - 1365	(s)		
	Alkenyl				(3)		
	C-H (stretching)	And the second		3010 - 3095	(m)		
	C = C (stretching)			1620 - 1680	(n)		
	$R - CH = CH_2$			985 - 1000	(s)		
			ar	nd 905 - 920	(s)		
	$R_2 C = CH_2$	(out of plane		880 - 900	(5)		
	cis - RCH = CHR	C-H bendings)		675 - 730	(5)		
	trans - RCH = CHR			960 - 975	(\$)		
	Alkynyi						
	■ C - H (stretching)			3200	4.1		
	$C \equiv C \text{ (stretching)}$			- 3300 2100 - 2260	(s)		
	Aromatic (sactoming)			2100 - 2200	(v)		
	Ar - H (stretching)			2020			
	Aromatic substitution ty (C-H out-of-plane bend			- 3030	(v)		
	Monosubstituted			690 - 710	(very s)		
			and	730 - 770	(very s)		
	o - Disubstituted		-	735 - 770	(s)		
	m - Disubstituted			680 - 725	(\$)		
			and	750 - 810	(very s)		
	p - Disubstituted			800 - 840	(very s)		
	Alcohols, Phenols, Carboxylic Acids						
	OH (alcohols, phenols,			3590 - 3650	(sharp v)		
1	OH (alcohols, phenols,	hydrogen bonded)		3200 - 3550	(broad s)		
	OH (carboxylic acids, h	ydrogen bonded)		2500 - 3000	(broad v)		
Aldehydes, Ketones, Esters and Carboxylic Acids							
	C = O stretch	1720		1600 1000			
	aldehydes – 1720 (Stre			1630 - 1780	(s)		
	cetones	2700 - 2900		1690 - 1740	(s)		
	esters			1680 - 1750	(s)		
	carboxylic acids			1735 - 1750 1710 - 1780	(s)		
	amides			1630 - 1690	(s)		
Amines			1030 - 1090	(s)			
	N – H			3300 3500	10/2002/44		
	Nitriles			3300 - 3500	(m)		
(C ≡ N			2220 - 2260	(m)		

TABLE - 2 Approximate Proton Chemical Shifts in NMR

TYPE OF PROTON	CHEMICAL SHIFT, DELTA, PPM (δ)		
1° Alkyl, RCH ₃	0.8 - 1.0	0	
2° Alkyl, RCH ₂ R	1.2 - 1.4		
3° Alkyl R ₃ CH	1.4 - 1.7	Ester R - C - O -CH ₂ - R 4 to 4.5	
Allylic, $R_2C = C - CH_3$	1.6 - 1.9	$N - CH_3$ 2.3	
R			
Benzylic, ArCH ₃	2.2 - 2.5		
Alkyl chloride, RCH2Cl	3.6 - 3.8		
Alkyl bromide, RCH2Br	3.4 - 3.6		
Alkyl iodide, RCH2l	3.1 - 3.3		
Ether, ROCH ₂ R	3.3 - 3.9		
Alcohol, HOCH2R	3.3 - 4.0		
Ketone, RCCH ₃	2.1 - 2.6		
8			
Aldehyde, RCH	9.5 - 9.6		
1			
0			
Vinylic, $R_2C = CH_2$	4.6 - 5.0		
Vinylic $R_2C = CH$	5.2 - 5.7		
R			
Aromatic, ArH	6.0 - 9.5		
Acetylenic, RC ≡ CH	2.5 - 3.1		
Alcohol hydroxyl, ROH	$0.5 - 6.0^{a}$		
Carboxylic, RCOH	$10 - 1.3^{a}$		
L			
O			
Phenolic, ArOH	4.5 - 7.7ª		
Amino R- NH2	1.0 - 5.0		

Spectroscopic Chart

Woodward's-Fieser's rules for calculating ultraviolet absorption maxima

A) For substituted dienes (Ethanol solution)

No.	Basic Value	λ _{max} (nm)
1)	Acyclic and heteroannular dienes	214
2)	Homoannular dienes	253
3)	Addition for each substituent	
	a) - R alkyl (including part of carbocyclic ring)	5
	b) - OR (alkoxy)	6
	c) - Cl, -Br	5
	d) - OCOR (acyloxy)	0
	e) - NR ₂₁ (N - alkyl)	60
	f) - SR (S - alkyl)	30
	g) - CH = CH - additional conjugation i.e. extending conjugation	30
	h) If one double bond is exocyclic to one ring	5
	i) If exocyclic to two rings simultaneously	10

B) Rules for α , β – Unsaturated Enones (Ethanol Solution)

No	Basic value	λ max (nm)
1)	Ketones: $-\overset{\beta}{\overset{C}{\overset{C}{\overset{C}{\overset{C}{\overset{C}{\overset{C}{\overset{C}{$	
	a) Acyclic or 6 - membered ring	215
	b) 5 - membered ring	505
2)	Aldehydes $_{-}\overset{ }{C}=\overset{ }{C}-CHO$	207
3)	Extended Conjugation	30
	$-\overset{\delta}{\overset{\circ}{C}}=\overset{7}{\overset{\circ}{C}}-\overset{\beta}{\overset{\circ}{\overset{\circ}{C}}}=\overset{\alpha}{\overset{\circ}{\overset{\circ}{C}}}-\text{CO}-\text{etc.},$	
4)	Homodiene component	39
5)	a) If one double bond is exocyclic to one ring	5
	b) If exocyclic to two rings simultaneously	10
6)	Addition for substituents	

	 Position
Substituents	Fosition

		α	В	γ	δ
a)	- R alkyl (including part of carbocyclic ring)	10	12	18	18
b)	- OR (alkoxy)	35	30	17	31
c)	- OH (hydroxy)	35	30	-	50
d)	- SR (thioether)	-	85	-	-
e)	- CI-(chioro)	15	12	-	-
1)	- Br (bromo)	25	30	-	-
g)	- OCOR (acyloxy)	6	6	-	6
h)	- NH ₂₁ - NHR, - NR ₂	-	95	-	-

Solvent correction

	Solvent	
a)	Ethanol	0
b)	Methanol	0
c)	Dioxan	5
d)	Chloroform	-1
e)	Ether	-7
ħ	Water	+8
g)	Hexane	-11
h)	Cyclohexane	-11

Seat No.	Set	P
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	5.3 0	. (E	ntrepre		April-20:	(New) (CBCS) Examination 23)f1.
			Adv	ances in Fermenta	-		
-			Thursday PM To 06	7, 06-07-2023 5:00 PM		Max. Ma	rks: 80
Instr	uctio	ns:	2) Draw	estions are compulsory neat labeled diagrams es to the right indicate	wherever		
Q.1	a)	Ch 1)	SOPs 'S' sta a)	are used to ensure co and for in 'SOP'? Special	nsistency b)	e the sentences again. in daily operations. What does Safety	10
			,	Standard	d)	Sustainable	
		2)	that q a)	is part of quality manuality requirements wil Quality assurance Quality management	l be fulfille b)		;e
		3)	a) b)	S agreement is adminis World Bank (WB) World Trade Organiza United Nations Orgar United Nations Confe	ation (WT)	O)	AD)
		4)	a) b) c)	raphical Indication (GI) Indian Copyright Act, New Design Act, 200 Patent Act, 1970 Geographical Indicati	1957 0	en as per the stration and Protection) Act, 199	99
		5)	a)	_ is the first stage of ri Exposure assessmen Toxicity study			
		6)	a) c)	people will be select More than 3000 20-300	-	ase I clinical trial. 300-3000 20-50	
		7)	a) b) c)	e vaccines are used for prevention of disease treatment of diseases surgical therapy increasing performan	es S	ts	
		8)	a)	erons are used against Diabetics Viral infections	b)	Hypertension Brain hemorrhage	

		a) Xanthomonas campestris b) Neisseria gonorrhoeae c) Pseudomonas aeruginosa d) Haemophilus influenzae	
		10) Nisin is a) vaccine b) antibiotic c) beverage d) solvent	
	b)	Answer one sentence 1) What is self-inspection in quality assurance? 2) What is copyright as per IPR? 3) What is clinical trial? 4) What is toxoid? 5) Give the one example of biopolymer. 6) What is carcinogenicity?	06
Q.2	An: a) b) c) d) e) f) g) h) i)	What is quality management? What is quality control? What is industrial design as per IPR? What are trade secrets? What are biosafety levels? What is Immuno-prophylaxis? What is genetic engineering? What is fermentation? What are complaints as per quality assurance? What is post genomic era?	16
Q.3	a)	 Answer any two of the following. 1) Explain in detail sterility and pyrogen testing of pharma products. 2) Describe in detail trademark and geographical indication. 3) Write in detail on bioethics principles. 	10
	b)	Write a short note on vaccine.	06
Q.4	a)	 Answer any two of the following. 1) Explain in brief production of insulin using rDNA technology. 2) Describe in brief production of Acetone-butanol. 3) Write in brief on good manufacturing practices. 	80
	b)	Write an essay on IPR.	80
Q.5	An: a) b) c)	Describe in detail Plant Variety & Farmer's Right Act. Explain in detail mushroom production. Write an essay on testing of sterility, pyrogenicity, allergy, carcinogenicity, toxicity of food products.	16

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Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination:

-		· \ —.	ор.		April-202		
				Wine Techn	ology (E	N506)	
-				7-07-2023 6:00 PM		Max. N	larks: 80
Instr	uctio			estions are compulsory es to the right indicate			
Q.1	a)	Cho 1)	Wine a)	e correct alternative a is obtained after alcoho Grapes Apple		e the sentences again. Itation of Mango Banana	10
		2)		is distilled from Molasses Grapes	b) d)	Sugarcane All of these	
		3)		eart of agave plant is k Tea plant Palm	nown as _ b) d)	Pinas Arena	
		4)	a) c)	Membrane press	b)	high-quality juice or wine. circular basket Horizontal basket press	
		5)	a)	erm Racking refers to _ Stacking unlabeled w storing hoses to drain adding yeast to initiate removing clear liquid	ine in bins on a slant e fermenta	ed board tion	
		6)	a)	_ is the desirable sugar production. 5-10% 14-20%	content of b) d)	the grapes required for the 2-5% 10-14%	
		7)	Ales a a) c)	are the beer in which fe top yeast either of the above	rmentatior b) d)	n is carried out using bottom yeast middle yeast	
		8)	In spa a) c)	arkling wine production Drambuie Both a and b	the cuvee b) d)	e is the base wine Top wine	
		9)	Alcoh a) c)	ol content of sake varied 10-20% 4-17%	es from b) d)	 12-15% All of these	

		 Wort is boiled with the hops a) to help in protein coagulation b) to provide bitter taste and flavour to the beer c) to help in the coagulation of tannins d) All of the above 	
	b)	Fill in the blank/Definition/One sentence answer /one-word answer /Give the name /predict the product etc. 1) Wine History 2) Fermentation 3) Enlist Environmental factors Affecting Fermentation 4) Clarification 5) Aging 6) Status of Indian brewing	06
Q.2	Sol ¹ a) b) c) d) e) f) y)	ve any Eight of the following. Write note on Grapes variety. Write note on Chemical constituents of Grapes and Wine. Explain in brief Rejuvenation of Old Wines Write note on Wine classification Explain in brief Biochemistry of wine production. Write note on Wine Laws and Authentications. Explain alcoholic beverages & human health Explain in brief New concept in wine production. Write note on Factors Affecting on Aging Write Visual Sensations in wine	16
Q.3	a)	 Attempt Any Two of the Following. 1) Explain Importance of automation operation in wine industries. 2) Explain Acidity and pH Adjustment in wine. 3) Explain Anatomical and chemical constituents of oak. 	10
	b)	Short note/Solve. Explain in detail Wine Assessment Method.	06
Q.4	a)	 Attempt any Two of the following. 1) Explain in brief Odor Assessment in Wine Testing. 2) Write in brief must preparation and clarification. 3) Explain in brief Advantages and Disadvantages of Oak Cooperage. 	80
	b)	Describe /Explain /Solve. Explain in detail Physiology of matured grapes	80
Q.5	Atte a) b) c)	empt any Two of the following. Describe in detail Pre-fermentation Practices. Explain in detail Post-fermentation Treatments. Write in detail basic procedures in wine making.	16

Seat No. Set P	Seat No.	Set	P
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B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination:

•	3 1001	March/	-)23	••		
		Literary Minds		- I (EN601)			
•		Monday, 19-06-2023 PM To 05:00 PM		Max. Mark	ks: 40		
Instr	uctio	s:1) All questions are compulsory2) All questions carry equal ma3) Figures to the right indicate f	rks.				
Q.1	Cho sent	se the correct word /Phrase fro nce.	m the gi	ven options and complete the	80		
	1)	Aksionov lived as a convict in Sib a) twenty six c) twenty	erian pris b) d)	son for years. twenty two thirty two			
	2)	Mrs. Quick was associated with the algorithms	he b) d)	Old age Home Rotary Club			
	3)	is not a dream says John I a) illusions c) life	Keats in t b) d)	the poem 'Ode to Blindness'. ambition goal			
	4)	'My Last Duchess' is based on hi a) Duke of Ferrara c) Robert Browning	storical e b) d)	vents involving the Duke of Syberia Ezra Pound			
	5)	was found by Robert which a) money c) ticket	h was left b) d)	t by his wife. note wallet			
	6)	The of nature helps in stre human beings. a) cruelty c) beauty	engthenin b) d)	g the bond between nature and greenery ugliness			
	7)	The little lamb followed Mary eve a) adverb of time c) adverb of place	rywhere. b) d)	(Choose the type of adverb) adverb of manner adverb of frequency			
	8) He said to her, "What a Cold day!" a) He told her that it was a Cold day. b) He exclaimed that it was a Cold day. c) He exclaimed Sorrfully that it was a Cold day. d) He claimed that it was a very Cold day.						
Q.2		answers in short (Any Four) /hat did Robert Quick expect from	າ his dauເ	ghter's after returning from the	12		

- business trip?

 2) What did Makar Semyonich want from Aksionov?

 3) Why the mother feels sad while narrating the story of Sita?

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	4) 5) 6)	What are the things of beauty mentioned in the poem? What is the poem 'My Last Duchess' about? How does Charlotte Bronte ask her readers to look towards life?	
Q.3	An 1) 2)	swer any One of the following Questions. How can technology literacy Skills help learners in the future? What life skills are needed to become a good leader?	10
Q.4	en	a Sensitive human being, what measures do you to take to conserve the vironment and how will you educate people about the importance of vironment?	10

Seat No.	Set	Р
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	o.3C.	(Ent	rep	March/Ap			mmation:
				International Bus			
•				y, 20-06-2023 06:00 PM		ı	Max. Marks: 80
Instr	ructio	2) 3)) Dra) Fig	questions are compulsory. aw neat labelled diagrams where to right indicate full manale of log table and calculators	rks.		
Q.1	A)	Cho 1)		the correct alternative from stands for	m the	option.	10
		1)	a)	Sales and Direct Support and Distribution	b) d)		
		2)	a) b) c)	nen was the first phase of glo The World War I The World War II The Establishment of GAT In 1913 when GDP was Hi	Т	ation ended?	
		3)	a)	lect example of Indian Multin Hindustan unilever Tesco	ationa b) d)	al company Videocon Cargill	
		4)		ernational Business transact Sales Investment	ions ii b) d)	nclude Transportation All of the above	
		5)		IC stands for Multinational cooperation Multinational Company	b) d)	Multinational Corporation	
		6)	Wh a) c)	nat is the first step to be inter Franchise FDI	nation b) d)	nal for a Company? Exporting None of these	
		7)	Eco a) c)	onomic globalization is a his Human Innovation Both a & b	torica b) d)	process, the result of Technological Process Knowledge	·
		8)	Ca a) c)	pitalistic, communication and Economic System Cultural System	d mixe b) d)	ed are the types of Social System Political System	
		9)	a) c)	is the first step in the int License Sales	ernat b) d)	ionalization process. Foreign Investment Export	

		 The Company produce, Markets, invests and Operates across the World. a) Global b) International c) Transactional d) Multinational 					
	B)	Answer the following. 1) Long form WTO? 2) Long form GATT? 3) Define Business. 4) Define Foreign Trade. 5) Long form MM? 6) What is Mean by Human Resource?	06				
Q.2	Solv a) b) c) d) e) f) g) h)	Write down International Trade Policy. Define Globalization. What is Tariffs? What is Mean by Franchising? What is mean by Software Architecture? What is mean by Joint Venture? What is mean by Project? What is mean by SAP Customer? Write down Economic Environment.	16				
Q.3	A)	 Attempt any Two of the following. 1) Explain the Evalution and Nature of International Business. 2) Explain the International law. 3) Write down objectives of WTO. 					
	B)	Shorts Note on "International Financial Institutions".	06				
Q.4	A)	Attempt any Two of the following. 1) Explain the advantages of MNC. 2) Explain the problem of International Business. 3) Explain the role of Economic Development.	80				
	B)	Describe the International Business Approach.	80				
Q.5	Atte a) b) c)	mpt any Two of the following. Explain the advantages and disadvantage of Globalization. Explain the procedure of Export and Import. Describe the Financial Accounting and Controlling Modules.	16				

Seat	Set	D
No.	Set	F

B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS)

			·	Examination: Organizational		•	
				day, 21-06-2023 6:00 PM		Max. Ma	rks: 80
Instr	uctio	2)	Figu	questions are compulsory ures to the right indicate w neat labeled diagrams	full mark		
Q.1	A)	Choo 1)	OB a)	the correct alternative is Art Both a & b	and rew b) d)	Science All the Above	10
		2)	a)	study of the culture and p Personality Perception		in different societies is called Anthropology Attitudes	<u>_</u> .
		3)		rces affecting organization People Technology		Environment	
		4)	a) b) c)	ganizational behavior foo Individuals, Organizatio Society, Organization, Employee, Employer, M Individual, Groups, Org	on, Socie Nation Manager	nent	
		5)	a)	Helps to understand be Department only work place only	b)	f human in Society only work place and Society	
		6)	a) c)	is a Study of Group Anthropology physiology	Behavio b) d)		
		7)	a) b) c) d)	Learning theory. Behaviorism & Humani Cognitive & Connective Constructivism All the above			
		8)	Stroa) b) c) d)	How to develop skills the when we are subjected Both 'a' & 'b' are true	sures of I hat would	ife d enhance our body's adjustment	

		9)	a)	are the The Envir	basic sour onment			ss. Physiolo	gical Tho	oughts	
			c)	Social Str	essors		d)	All of the	above		
		10)	b)	are the It causes It feels un It decreas All of the	pleasant ses perform		f Neç	gative Stre	ess.		
	b)	Ansv 1) 2) 3) 4) 5) 6)	ED Twe Nee Life Ind	in one sen I Means o factor the ed theory pe Expectan- ividual Beh oup Behavi	eory propou propounded cy theory p navior include	unded I d by propour des	by nded 	 by			06
Q.2	Solva) b) c) d) e) f) g) h)	E- Control Defiring D	ommine Whene Athere Ieane State Green	eb Comme erception titude arning	erce						16
Q.3	A)	1) E 2) E	Expla Expla	any two of ain two Fac ain types of ne Intelliger	ctor Theory f Personalit	of Mot ty in de	etail.				10
	B)	Write	e Sho	ort note Sta	ages of Gro	oup De	velop	oment.			06
Q.4	A)	1) E 2) E	Expla Expla	any two of ain Maslow ain Factors ain Time M	Need The influencing	ory in r g proce	ess o		ons.		80
	B)	Expl	ain s	ources of S	Stress in in	dividua	al.				80
Q.5	Ans a) b) c)	Expla Expla	ain L ain J	wo of the factorial indicates when the second indicates with the second in the second	ancy Theor	ail.			I behavio	or.	16

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Seat	Sat	D
No.	Set	

B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination:

	_		March/April-2 Techniques in Industrial C		
			ursday, 22-06-2023 I To 06:00 PM		Max. Marks: 80
Instr	uctio) All questions are compulsory. 2) Figures to the right indicate full m	narks	5.
Q.1	A)	Cho 1)	Principle used in column chromat a) Selective adsorption c) Paper chromatogram	ogra b)	aphy is based on Absorption
		2)	The ratio of distance travelled by solvent is called as value. a) Constant c) RF		te to distance travelled by Molar All of these
		3)	Stationary phase used in column a) Liquidc) Water		omatography is Gas Solid
		4)	Aniline has high boiling point, high in water. Aniline therefore separate a) Simple distillation c) Sublimation	ted b	oy
		5)	Fractional distillation is different from presence of a) Condenser c) Conical flask	b)	distillation because of Fractionating column Round bottom flask
		6)	There are principles of grea) 12 c) 14	b)	10
		7)	Water which contains Ca ⁺² & Mg ⁺ a) soft c) neutral	b) d)	ns is called water. hard acidic
		8)	Zeolites are exchangers. a) Anionic c) Cationic	b) d)	Hydroscopic Neutral
		9)	colour is used to identify for a) blue		fire extinguisher. red cream

		10) Tars, oil, paints lie in class material. a) B b) A c) F d) C	
Q.1	B)	 Fill in the blanks and complete the following sentence. Universal solvent used in green chemistry is The microwaves are electromagnetic waves with wavelength Paper chromatography is form of chromatography. In gas chromatography gas is used as mobile phase. Fractional distillation is based on the principle of more volatile liquid boils and distillate first, while volatile liquid distillate later. Titanium and aluminium materials can be classified under class 	.
Q.2	Ans a) b) c) d) e) f) g) h) i)	wer the followings (Any Eight): Give principle of chromatography. Draw neat labelled diagram of distillation assembly. Give one example of safe solvent and hazardous solvent. Write factors affecting enzyme activity. Name different types of chromatographic methods. Name different types of fires. Define Friedel - Craft acylation. Write different types of fractionating column. How will you separate benzoic acid from toluene? Name any four fire extinguisher.	16
Q.3	A)	 Answer the followings (Any two): 1) Describe soda ash extinguisher. 2) Describe experimental technique for paper chromatography. 3) Explain separation of acetone & water by fractional distillation. 	10
	B)	Write short note on principles of green chemistry.	06
Q.4	A)	 Answer the followings (Any two): 1) Draw neat labelled diagram of batch distillation. 2) Give any two examples of microwave assisted reactions. 3) Discuss classification of chromatography. 	08
	B)	Explain thin layer chromatography.	08
Q.5	Ans a) b) c)	wer the following (Any Two). Explain continuous distillation process with neat labelled diagram. What are zeolites? How they are obtained. Give its structure & uses. Describe – 1301 fire extinguisher.	16

Seat No.	Set	Р
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B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS)

				Examination: Genetic Eng		_	,
-				3-06-2023 6:00 PM			Max. Marks: 80
Instr	uctio			uestions are compulso res to the right indicate		KS.	
Q.1	A)	Muli	•	choice Questions. sequence of DNA from Genetic sequence origin of replication	b)		10 d
		2)	Virus a) c)	ses which infect bacter Bacteria pUC	ia are cal b) d)		
		3)	Proto a) b) c) d)	ein can be visualized d Staining them with dy Using electron micros Measuring their mole None of these	/e scope on	ly	
		4)	In SI a) b) c) d)	DS PAGE Protein are denatured Protein have same cl Smaller protein migra All of the above	harge-to-		
		5)	The a) c)	first genomic libraries v Plasmid Human	were clor b) d)	ed in Bacteria Plants	
		6)	What called a)	•	ling of pri b) d)	mer to the denatured st Renaturation None of these	rand is
		7)	Whice a) b) c) d)	ch of the following is not Synthesis of chimeric Modification of natura Construction of novel Multiplication of natura	proteins al protein I protein	3	eering?
		8)	Bt C a) c)	otton is the Cloned plant Transgenic plant	b) d)	Hybrid plant Mutated plant	
		9)	Ti pl a) c)	asmid is found in E.Coli Nitrosomonas	 b) d)	Bacillus Agrobacterium tuminit	aciens

		10)	molecule in the a) Wester		ue is s b) d)	suitable for identification mRNA Southern Blotting Eastern blotting	
	b)			redict the produrase		e answer /one word answer	06
Q.2	Solva) b) c) d) e) f) y)	Write note on Synthetic oligonucleotide. Write note on Antisense molecule. Explain in brief Electroporation. Write note on Liposomes. Explain in brief Annealing. Write note on p UC series. Explain in brief genomic library. Explain in brief DNA microarray. Write note on Restriction enzyme. Write note Insulin.				16	
Q.3	A)	 Attempt Any Two of the Following. Type II restriction enzyme in genetic engineering. Write note on chemical method of DNA transformation process. Write note on Shotgun method. 					
	B)	Short note/Solve. Write short note on DNA polymarases with its types.					06
Q.4	A)	1) 2)	Write Yeast Y Basics of PCF		J.		08
	B)		c ribe /Explai r Explain Sange	n /Solve. er's Method of DN	NA sec	uencing.	80
Q.5	Atte a)	Attempt any Two of the following. a) Describe in detail Restriction modification systems types, action and applications.					
	b)	Molecular marker with detail DNA fingerprinting. Agarose gel electrophoresis techniques, Applications.					

Seat No.	Set	Р
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В	.5c.	(Ent	repre	sneursnip) (Semester) March/Apr	-) (New) (CBCS) Examination: 123		
			Te	chniques in Plant Tis				
_	Day & Date: Friday, 23-06-2023 Max. Marks: 80 Time: 03:00 PM To 06:00 PM						: 80	
Instr	uctio			uestions are compulsory. res to the right indicate full	mark	ïS.		
Q.1	A)	Multiple choice Questions. 1) Name of the organ which First cell line observed						
			a) c)	E. Coli Mouse	b) d)	Sheep Drosophila		
		2)	Whice culture		the p	art of growth medium for animal		
			a) c)	Starch Carbon source	b) d)	Serum Inorganic salts		
		3)	The a) c)	culture freshly prepared fro Cell line Secondary culture	om iso b) d)	plated tissue is known as Primary cell culture all of these		
		4)	Wha a) b) c) d)	t is animal tissue culture _ Growth and maintance of Growth and selling of ani Only maintance of anima All of these	anim mal c	nal cell		
		5)	A sir a) c)	ngle cell ability to produce of Pluripotent Cell line	entire b) d)	plant is called as Totipotancy None of these		
		6)	prop a) c)	is an excised piece of le agation. Micro shoot Explant	af or b) d)	stem tissue used in micro Medium Scion		
		7)	The a) c)	pair of hormone required fo Ethylene and auxin Auxin and Abscisic acid		allus to differentiate are Auxin and cytokinin Cytokinine and Gibberellin		
		8)		formation of embryoids from ium is due to Organogenesis Double fertilization	m the b) d)	e pollen grains in the tissue culture Test tube culture Cellular totipotency		
		9)	The a) c)	growth of plant tissues in a Gene Expression Plant tissue culture	rtifici b) d)	al media is called Trans genesis Cell Hybridization		
		10)	Nam a) c)	ne of the cell line in human HeLa MRC-5	embr b) d)	yonic lungs. WISH L		

	b)	Fill in the blank/Definition/One sentence answer/one word answer /Give the name /predict the product etc. 1) Synthetic Media 2) Cell line 3) Suspension culture 4) Autoclave 5) Callus 6) Explant	06
Q.2	Any a) b) c) d) e) f) g) h) i)	Write note on Natural media. Write note on Cell synchronization. Explain in brief Surface Sterilization. Write note on Protoplast fusion. Explain in brief Genetic Variation. Write note on Balanced salt Solution. Explain in brief Anther culture. Explain in brief Inoculation Room. Write note on Laminar Air Flow. Explain in brief Cell Counting.	16
Q.3	A)	 Attempt Any Two of the following. 1) Characteristics of Animal cell Culture. 2) Methods of Protoplast fusion and its Application. 3) Concept of Haploid Production. 	10
	B)	Short note/Solve. Principle and application of Root tip culture.	06
Q.4	A)	 Attempt any Two of the following. 1) Write Sterilization of Media. 2) Write Chemical Blockade in cell Synchronization. 3) Explain Shoot Tip Culture. 	80
	B)	Describe /Explain /Solve. Explain components Serum and serum containing media.	08
Q.5	Atte a) b) c)	empt any Two of the following. Describe in detail Complete Media and Physicochemical properties of media. Draw the structure Leaf Culture and its Application. Explain the Preparation of Media and its aseptic techniques, Applications.	16