Seat No.			Set	Ρ			
	B.Sc	 . (Entrepreneurship) (Semester - I) (New) (CBCS) Exam	nination:				
	Oct/Nov-2022						
		ENGLISH (Compulsory) Literary Voyage					
			/lax. Marks	: 40			
Instru	uctio	<ul><li>ns: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>					
Q.1	Cho 1)	ose the correct alternatives from the options. What has been at the back of every speech Gandhiji delivered?		08			
		a) Abstinenceb) Religionc) Teetotalismd) Missionaries					
	2)	How did Khushvant Singh travel to school in the city?					
		a) Car b) On foot c) Bicycle d) Motor bus					
	3)	What does R. Tagore desire not to be sheltered from?					
		a) Loveb) Compassionc) Dangersd) Cowardice					
	4)	Which flowers competed for the title in 'The Lotus'?a) Lily and Daisyb) Rose and Daisyc) Lily and Rosed) Rose and Tulips					
	5)	In the word 'Powerless' the element '-less' is an example of a) suffix b) prefix c) fix d) fixing					
	6)	The word that denotes action is termed as					
		a) pronounb) adjectivec) adverbd) verb					
	7)	In the word 'Unhappy' the element 'Un-' is an example of aa) prefixb) suffixc) both a and bd) none of the above					
	8)	I like to read <u>novels.</u> The underlined word in this sentence isa) a verbb) an adverbc) nound) an article	·				
Q.2	Writ	e the answers in short. (Any Four)		12			
	a)	What is the message given in the poem 'Let Me Not Pray to be She from Dangers'?	eltered				
	b)	What is the subject matter of the poem 'The Lotus'?					

- What did the father see in his child's bedroom in the poem 'The Toys'? C)
- d)
- e)
- Why did Gandhiji want to promote Khadi? What is the significance of the title of the poem 'The Toys'? Comment on the nature of the grandmother in the story 'The portrait of a f)

Lady'.

# SLR-FX-1

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## Q.3 Answer the following question. (Any one)

- a) Define the word communication and state the components of the communication.
- b) Write in detail about the channels of communication.
- **Q.4** Discuss the intrapersonal skills and the strategies to improve them.

Seat No.

# B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: **Oct/Nov-2022**

**PRINCIPLES OF ENTREPRENEURSHIP (Paper - I)** 

Day & Date: Tuesday, 24-01-2023 Time: 12:00 PM To 02:00 PM

Instructions: 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 tables and calculator is allowed.

#### Multiple choice questions. Q.1

- A business organisation owned and managed by two or more persons 1) where all partners shares in profits and losses of the business as well as liability is known as
  - a) Sole proprietorship
  - c) Company
- 2) is a characteristic of entrepreneurship.
  - a) Risk taking
  - c) Creative activity

### SIDBI stands for 3)

- a) Small institutions development bank of India
- b) Small industries development bank of India
- c) Small industries derivatives bank of India
- d) Small industries development bureau of India
- Business is a/an activity. 4)
  - a) Social
  - c) Economics
- There is only one owner in \_\_\_\_\_. 5)
  - a) Sole Proprietorship
    - c) Company
- The Indian Institute of Entrepreneurship (IIE) was established in the year 6)
  - 1993 a) b)
  - C) 1991 C)
- 7) District Industries Centres are located
  - a) in each district
  - c) only in selected districts
- is barriers to entrepreneurship. 8)
  - a) Lack of capital
  - c) Undeveloped infrastructure

### Q.2 Answer the following: (Any Four)

- Define Entrepreneur. a)
- b) Define Innovation.
- Define Joint Stock Company. C)
- **Define Women Entrepreneur** d)
- Define Rural Entrepreneurship. e)
- **f**) What is Self Help Group?

- b) Lack of resources
- d) All of the above

80

d) Cooperative Society

b) Partnership Firm

- b) Innovation
- d) All of the above
- Political b)
  - d) None of these
  - b) Partnership
  - d) Cooperative Society
  - 1995



- in each state b)

C) only in selected states

Max. Marks: 40



Q.3	Write a) b) c) d)	e short note. (Any Two) Functions of Entrepreneurship Types of business organization SIDBI DIC	08
Q.4	Ansv a) b) c)	<b>wer the following questions. (Any Two)</b> Explain characteristics of entrepreneurship. Explain Functions of SIDCO. Explain types of entrepreneur.	80
Q.5	Ansv a) b)	<b>wer the following questions. (Any One)</b> Explain role of entrepreneurship in economic development. Explain problem faced by rural entrepreneurs.	80

Sea No.	t		Set P
I	B.Sc	. (Entrepreneurship) (Semester - Oct/Nov-20	
	FL	JNDAMENTAL OF ECONOMICS AND	
		te: Wednesday, 25-01-2023 00 PM To 02:00 PM	Max. Marks: 40
Instr	uctio	<ul> <li>ans: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give equal</li> <li>3) Figures to the right indicate full ma</li> <li>4) Use of logarithmic tables and calculated</li> </ul>	arks.
Q.1		tiple choice questions.	08
	1)	Human wants are a) Unsatisfied b c) Undefined d	,
	2)	is knows as the "Father of Econc	
		,	) J. B. Say I) Dr. Marshall
	3)	c) Keynes d In economics, desire backed by purchas	/
	5)		b) Demand
		c) Consumption d	d) Supply
	4)	Homogeneous product is the feature of	
		a) perfect competition b c) monopolistic competition d	<ul> <li>Oligopoly</li> <li>None of these</li> </ul>
	5)	Money value of business reputation is k	,
	-	a) Copyright b	,
	E)	c) Patents d	
	6)	Amount of goods or cash which is withd use is termed as	nawn nom business for personal
		a) Capital b	, i
		c) Drawings d	
	7)	<ul> <li>Recording of day to day business transa</li> <li>a) Cost Accounting</li> </ul>	actions is concerned with
		c) Management accounting d	, 3
	8)	A book containing a chronological recor	•
	·	record is	
		a) Journal b c) Trial Balance d	, .
Q.2		swer the following: (Any Four)	08
	a) b)	Define business economics. Define law of demand.	
	c)	What is duopoly market?	
	d)	Define elasticity of demand.	
	e) f)	Define business entity concept. What is depreciation?	

## Q.3 Write short notes. (Any Two)

- a) Nature of Business Economics
- b) Demand Schedule
- c) Branches of Accountancy
- d) Accounting Concepts

## Q.4 Answer the following questions. (Any Two)

- a) Explain features of perfect competition market.
- b) Explain types of Elasticity of Demand.
- c) From the following information prepare Trading a/c of Solapur Trading Company for the year ended 31<sup>st</sup> March, 2022

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Opening Stock	50,000	Sales	2,10,000
Wages	7,700	Purchase Return	5,000
Factory Rent	10,000		
Purchases	1,25,000		
Carriage	2,500		
Sales Return	10,000		

Note: Closing Stock was Rs. 35,000

## Q.5 Answer the following questions. (Any One)

- a) Explain in detail types of market.
- b) Journalize following transaction in the Books of Anjana Traders, Solapur.

Date	Particulars	Amount (Rs.)
01-04-2022	Business started business with cash	80,000
04-04-2022	Purchased goods for cash	40,000
05-04-2022	Deposited cash into Bank	15,000
09-04-2022	Sold goods for cash	25,000
19-04-2022	Sold goods to Miss. Sheetal on credit	10,000
25-04-2022	Paid Salaries	5,000

08

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Seat No.		Set	
B	.Sc. (Entrepreneu	rship) (Semester - I) (New) (CBCS) Examination Oct/Nov-2022	1
	FUNDAMENT	ALS OF INORGANIC CHEMISTRY (Paper - I)	

Day & Date: Friday, 27-01-2023 Time: 12:00 PM To 02:00 PM

Ceat

Instructions: 1) All questions are compulsory.

- 2) Figures to the right indicate full marks.
- 3) Draw neat diagrams and give equations whenever necessary.
- 4) Use of logarithmic table and calculator is allowed.

#### Q.1 Multiple choice questions.

a) ∏ bond

 $\sigma$  bond

- Lateral overlap of p-orbital leads to the formation of 1)
- C) The bond formed by complete transfer of electrons from one atom to 2) another atom to another is called as a bond.
  - a) covalent
  - co-ordinate C)
- NO molecule is \_\_\_\_\_ molecule. 3)
  - Homonuclear diatomic a)
    - imaginary C)
- Born Haber cycle used to determine 4)
  - b) electron affinity lattice energy a) ionization energy C)
- Sodium Chloride having \_\_\_\_\_ stiochiometry. 5)
  - b) 2:1 1:2 a)
  - 1:1 d) 2:3 C)
- The molecular orbital formed as a result of LCAO method obeys . 6)
  - a) Pauli's exclusion principle
  - Aufbau principle b)
  - Hund's rule of maximum multiplicity C)
  - all of three d)

1.00

a)

- Which of the following compounds is not ionic in nature? 7)
  - b) Ammonium Chloride a) Lithium Chloride
  - c) Carbon tetrachloride d) Calcium Chloride
- The limiting radius ratio for cubic geometry is 8)
  - b) 0.732 to 1.00
  - 0.414 to 0.732 d) < 0.155 C)

SLR-FX-4

Max. Marks: 40



08

b) ionic d) metallic

b) metallic bond

d) ionic bond

- b) Heteronucleuar diatomic
- d) non existing

- d) all of these

	b) c) d) e) f)	Define electron affinity and lattice energy. Draw the neat labeled diagram for Born-Haber cycle. Draw the shape of p-orbital Define co-ordination number with example What is the radius ratio for octahedral geometry?	
Q.3	Wri a) b) c) d)	<b>te short notes on any Two of the following.</b> Characteristics of ionic compounds Atomic and molecular orbital K. Fajan's rule Types of chemical bond	08
Q.4	a) b)	Swer any Two of the following. How radius ratio affect geometry? Distinguish between bonding molecular orbitals and antibonding molecular orbitals. Give the condition for the successive overlap.	08
Q.5		swer any One of the following. Explain the crystal structure of NaCl with respect to unit cell, coordination number and stoichiometry	08

b) Explain the formation of CH<sub>4</sub> molecule on the basis of hybridization.

- Q.2 Answer any Four of the following.a) Define hybridization with examples



B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: Oct/Nov-2022					
		FUNDAMENTALS OF ORGANIC CHEMISTRY (Paper – II)			
		e: Saturday, 28-01-2023 Max. Marks: 4 0 PM To 02:00 PM	40		
Instr	uctio	<ul><li>ns: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>			
Q.1	Mult 1)	iple choice questions.General formula of cycloalkane isa) CnH2nb) CnH2n+2c) CnHnd) CnH2n-2	08		
	2)	In wurtz reaction alkyl halide is heated with metal. a) C b) Na c) Cu d) Mg			
	3)	In benzene each c- atom is in hybridized state. a) sp b) sp <sup>3</sup> c) sp <sup>2</sup> d) dsp <sup>2</sup>			
	4)	In benzene c-c-c bond angle is a) 109° 28' b) 180 c) 60 d) 120			
	5)	If compound contains 34% C, 50% H then then percentage of oxygen is %. a) 16 b) 34 c) 50 d) 100			
	6)	In Lassigne's test S in organic compound is converted to a) NaS b) Na <sub>2</sub> S c) Na <sub>2</sub> SO <sub>3</sub> d) Na <sub>2</sub> So <sub>4</sub>			
	7)	Conjugated double bond is present in a) butyne.a) butyneb) butenec) 1,3-butadiened) 1,4-butadiene			
	8)	Fusion of aniline with sodium metal given a) NaX b) NaCNS c) Na <sub>2</sub> S d) NaCN			
Q.2	Ans a) b) c) d) e)	wer any four of the following. Draw kekule & Dewar structure of benzene. Apply Huckel's rule to naphthalene. How will you prepare filtrate in Lassaignes test? State halogenation of benzene Define non-aromatic compound.	08		

f) Define empirical formula.

SLR-FX-5

Set P

# Seat

No.

# RSc (Entrepreneurship) (Semester - I) (New) (CBCS) Examination:

Estimation of halogen by carius method. b) Acidity of alkynes. C) Answer any two of the following a) Explain kolbe's reaction for preparation of alkane. b) Explain molecular orbital picture of benzene. c) Explain kjeldahl's method for estimation of nitrogen. Q.5 Answer any one of the following. a) What are cycloalkanes? Explain distillation of Ca & Ba salt of dicarboxylic acid. What is the action of

i) H<sub>2</sub>/Ni

ii) H Br

Q.4

iii) Conc H<sub>2</sub>So<sub>4</sub> on cyclopropane.

b) Define aromatic & pseudo aromatic compound with example. Explain sulphonation of benzene.

### Q.3 Write short notes on any two.

Classification of dienes a)

08

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						SLR-FX	(-6
Seat No.						Set	Ρ
B	8.So	c. (Entrepreneu			New) (CBCS) Exa	mination:	
		Funda	Oct/No mentals of Mi	ov-2022 crobiolo			
		ate: Monday, 30-01 :00 PM To 02:00 F	-2023		<b>33</b> ( <b>112</b> )	Max. Marks	: 40
Instru	ucti	ons: 1) All questio 2) Figures to	ns are compulsory the right indicate t				
Q.1					e following sentence	9.	08
	1)	a) Louis Paste c) Watson & (		by b) d)	 Robert Koch Alexander Fleming		
	2)			ar, photos	synthetic, autotrophic	and	
		eukaryotic micro a) Algae c) Bacteria	organisms.	b) d)	Fungi Viruses		
	3)		st observed by				
		<ul><li>a) Louis Paste</li><li>c) Albert Danr</li></ul>		b) d)	Robert Koch Antony van Leeuwe	nhoek	
	4)	,		,	n atmospheric O2 for		
	-	a) Osmotolera	nt	b)	Facultative anaerob Obligate aerobe	e	
	5)	c) Acidophile are small	that can replicate	d) only insid	le the living cells of o	raanisms.	
	-,	a) Bacteria		b)	Viruses	.g	
	6)	c) Fungi is the bra	nch of science wh	d) ich deals	Algae with the study of fung	ni	
	0)	a) Mycology	ich of science wit	b)	Phycology	jı.	
		c) Virology	<b>.</b>	d)	Bacteriology		
	7)	a) Joseph List	er of antiseptic su er	lrgery. b)	Robert Koch		
		c) Louis Paste		d)	None of above		
	8)	Lag phase is als		_·			
		<ul> <li>a) period of in</li> <li>c) generation</li> </ul>	tial adjustment time	b) d)	transitional period period of rapid grow	th	
Q.2	Δn	swer the followin	a: (Apy Four)	,			08
Q.2	a)	Louis Pasteur					00
	b) c)	SPC Diauxic Growth					
	d)	Robert Hook					
	e) f)	Virus Synchronous Gro	wth				
0.2	,						08
Q.3	vvr a)	ite short note (An Explain Germ Th					UÓ
	b)				oouwonhook		
	C)	Explain in brief C		my van L	eeuwennoek		

# Q.4 Answer the following questions. (Any Two)

- a) Describe in brief Pure Culture Techniques.
- **b**) Write in detail about Non- Living Media.
- c) Explain general characteristic of Fungi and Bacteria.

# Q.5 Answer the following questions. (Any One)

- a) Write in detail Difference Between Prokaryotic & Eukaryotic Cell.
- **b**) Define Growth and Explain in detail Bacterial growth curve.

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Sea No.	t			Set P			
	B.Sc	. (Entrepreneurship) (Semester - I	) (Nev	w) (CBCS) Examination:			
	Oct/Nov-2022 BASIC TECHNIQUES IN MICROBIOLOGY (Paper – II)						
Day	& Dat	e: Tuesday, 31-01-2023		Max. Marks: 40			
-	-	00 PM To 02:00 PM					
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full mail</li> <li>3) Draw neat labeled diagrams where</li> </ul>		cessary.			
Q.1		oose the correct alternative and rewrite		•			
	1)	The source of electron in electron micros a) Gold	b)	Tungusten			
		c) Mercury	d)	Silver			
	2)	Capsule staining is carried out by a) Manvel's	_methc b)	od. Chances			
		c) Dorner	d)	Albert			
	3)	The chemical agent which is applied to I	•	ssue to kill or inhibit the			
		growth of microorganisms is known as _ a) Disinfection	<u></u> . b)	Sterilization			
		c) Germicide	d)	Antiseptic			
	4)	The ability of lens to distinguish or separ each other is known as	ate of	two objects or points from			
		a) Resolution	b)	Refraction			
	<b>5</b> )	c) Reflection	d)	Rarefraction			
	5)	<ul> <li>is used for sterilization of heat lab</li> <li>Autoclaving</li> </ul>	bile Mic b)	Hot air Oven			
		c) Filtration	d)	Chemical agents			
	6)	used as decolorizing agent in gr		-			
		a) ZNCF c) Crystal Violet	b) d)	95% Alcohol Safranin			
	7)	is the gaseous agent used in the	form of	f sterilization of instruments			
		and rooms. a) Mercury	b)	Incinerator			
		c) Formaldehyde	d)	Phenol			
	8)	used as selective decolorizing ag	ent in o	cell wall staining by chances			
		method. a) 0.5% Cango red	b)	95% Alcohol			
		c) 0.5% New fuschin	d)	10% Nigrosin			
Q.2	Defi	ne any four of the following.		08			
	a) b)	Define cold sterilization Define stain and enlist types of stain					
	ы) С)	What is Numerical aperture?					
	d)	Define disinfection.					

- **d)** Define disinfection. e)
- Role of eye piece. What are the practical applications of sterilization by halogens? f)

### Write short notes on any two of the following. Q.3 Give a detailed account on principle and mechanism of capsule staining. a) Describe in detail principle, construction and working of autoclaving. b) Describe in brief mechanism Negative staining. C)

#### Q.4 Answer any two of the following.

- Describe in brief mechanism of simple staining. a)
- Describe in brief sterilization by phenol and radiation b)
- Give a detailed account on applications of electron microscope. C)

#### Q.5 Answer any one of the following.

- Discuss in detail theories and mechanism of Gram staining. a)
- b) Explain in detail ray diagram, working and principle of compound microscope.

08

08

			ednesday, 01-02-2023 / To 02:00 PM	-		Max. Marks: 40
nstri	uction		<ol> <li>All questions are compulsory.</li> <li>Draw neat diagrams and give e</li> <li>Figures to the right indicate full</li> <li>Use of logarithmic table and cal</li> <li>(At. Wts.: H=1, C=12, O=16, N= 1</li> </ol>	marks Iculato	s. or is allowed.	ry.
<b>)</b> .1	Choo	se	the correct alternative and rewi	rite th	e following sentence	es. 08
	1)	a)	network of microfilaments and mic Cytoskeleton endoplasmic skeleton	rotubu b) d)	Iles is classified as active skeleton vertebral skeleton	
	2)	a)	e term cell was given by De Bary Schwann	b) d)	Robert Hooke Tatum	
	3)	a)	e site of aerobic respiration in euk Peroxisome Mitochondria	aryoti b) d)	c cells is Plastid Cilia	
	4)	b)	is involved in the synthesis of Smooth Endoplasmic Reticulum Endoplasmic Reticulum Cytoplasm Mitochondria		oholipids.	
	5)	a)	IA synthesis takes place during S phase G1 phase	p) d)	hase. M phase G₂ phase	
	6)	a)	ell without a cell wall is termed as Tonoplast Protoplast	b) d)	 Apoplast Symplast	
	7)	a)	is a jellylike substance found f mbrane. Mitochondria Cytoplasm	loating b) d)	g inside the plasma Karyoplasm Cell sap	
	8)		nallest microtubular motor protein	-		
		<b>^</b>	kinocin	h)	niacin	

# B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: Oct/Nov-2022 **CELL BIOLOGY (Paper - I)**

Seat

No.

### Q. S.

- a) kinesin niacin b)
- c) dyeneins thiamine d)

# Q.2 Answer any four of the following:

- Define Microtubule. 1)
- 2) Draw Structure of Mitochondria.
- Enlist functions of Nucleus. 3)
- Explain Cell Membrane Permeability. 4)
- Explain agents promoting carcinogenesis. 5)
- Write a note on Vacuoles. 6)

**SLR-FX-8** 

Set

Ρ

08

Q.3	A) V a) b) c)	<b>Vrite short notes on any two of the following:</b> Write a note on microtubule and explain its functions. Discuss in detail about meiosis. Explain General characteristics of cancer.	08
Q.4	Ans	swer any Two of the following:	08
	a)	Explain structure and function of Endoplasmic Reticulum.	
	b)	Write a note on Chemical components of biological membranes	
	C)	Discuss in detail about Structure and function of cell membrane.	

- Q.5 Answer any one of the following:
  a) Write a detailed note on Mitosis.
  b) Define Cell and write a note on classification of organisms by cell structure.

			N				
Ŀ	B.Sc. (Entrepreneurship) (Semester – I) (New) (CBCS) Examination: Oct/Nov-2022						
		Animal and Plant Phys	iolo	gy (Paper – II)			
		e: Friday, 24-03-2023 0 PM To 02:00 PM		Max. Mark	s: 40		
Instr	uctio	ns: 1) All questions are compulsory.					
		2) Draw neat diagrams and give ed					
		<ul><li>3) Figures to the right indicate full r</li><li>4) Use of logarithmic table and calc</li></ul>					
			Julai				
Q.1		iple choice question.			08		
	1)	In Collenchyma intracellular Space and a) Absent	re ge b)	nerally, Present			
		c) Small	d)	Large			
	2)	The cells of Parenchyama tissues are	Э	2			
		a) Elongated	b)	Vacuole Absent			
	•	c) Vacuolated	d)	Compactly arranged			
	3)	The amount of water lost by plants du a) 90%	b)	transpiration is 20%			
		c) 40%	d)	50%			
	4)	Loss of water from plant in the form of	of wat	er vapour is called			
		a) Surface Tension	b)	Cohesion			
		c) Ascent of sap	d)	Transpiration			
	5)	forms clot when blood vessels a) Platelets	get o b)	lamaged. Cellulase			
		c) Haemoglobin	d)	Fe++			
	6)	The majority of the water from the inc	ligest	ible food is absorbed in the?			
		a) Stomach	b)	Food pipe			
	-	c) Pancreas	d)	Large Intestine			
	7)	Impulse Conduction is Fastest in neu a) Myelinated	ron ti b)	Unmyelinated			
		c) Sensory	d)	Motor			
	8)	Which of the following are part of the					
		a) Trachea	b)	Diaphragm All of the above			
		c) The Lungs	d)	All of the above			
Q.2		wer any four of the following.			08		
	a)	Write types of Blood cells.					
	b) c)	Draw the Primary Structure of Root Define Transpiration.					
	d)	Define Digestion.					
	e) f)	Write note on Stomata.	hack				
	f)	Draw nit labelled diagram of Thyroid g	yianu				

# Seat No.

# SLR-FX-9 Set P

Q.3	Writ a) b) c)	<b>te short notes on any two of the following:</b> Describe types of complex permanent tissue. Describe Transport of O2 and CO2. Describe the photosynthetic pigment.	08
Q.4	Ans a) b) c)	wer any Two of the following: Write detail note on Ammonium Assimilation of Nitrogen. Write detail note on Hypothalamus and pituitary gland. Write note on composition of pancreatic and gastric juice.	08
Q.5	Ans a) b)	wer any one of the following: Write detail Mechanism of stomata opening and closing. Describe the detail Mechanism of coagulation of Blood.	08

Seat	•						
No.		Set	P				
	B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: Oct/Nov-2022						
		ENGLISH (Compulsory) Literary Voyage					
		e: Monday, 23-01-2023 Max. Mark 0 PM To 02:00 PM	s: 40				
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> </ul>					
Q.1		rite the following sentences by choosing the correct alternative.	08				
	1)	Gandhi was asked to deliver a speech ona) Khadib) Freedomc) Religiond) Poverty					
	2)	Jadav Payeng belongs to the state of a) Maharashtra b) Assam c) Guwahati d) Sikkim					
	3)	The grandmother used to fetch the author's before school.					
	-,	a) books b) shoes c) uniform d) wooden slate					
	4)	The poet desires not to be sheltered froma) loveb) compassionc) dangersd) cowardice					
	5)	sung praises for the flowers.a) Bardb) Oraclec) Saintsd) None of these					
	6)	The father discovered coins.					
		a) silver b) gold c) copper d) nickel					
	7)	Entering into some one else's house without permission isa) illmanneredb) illegalc) illogicald) illogic					
	8)	I have never heard them after that incident. a) at b) by c) of d) to					
Q.2		wer the following questions (any four)	12				
	a) b) c) d)	What is the importance of khadi in the context of the freedom Struggle? How was Jadav Payeng inspired to start planting trees? What kind of relationships did the author have with his grandmother? What are the various qualities that Rabindranath Tagore discusses as important in the poem?					

- e)
- Why did Toru Dutt focus on the Lotus flower in the poem? What is the significance of the toys in the poem 'The Toys'? f)

- Q.3 Answer the following question. (Any one)a) Write about the process of communication in detail.
  - **b**) Write about the principles of effective communication.

#### **Q.4** Write a description about your memorable tour with your family members. 10

- 10

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

## Oct/Nov-2022 **ENTREPRENEURSHIP** (Paper – I) Entrepreneurship and The World of Business

Day & Date: Tuesday, 24-01-2023 Time: 12:00 PM To 02:00 PM

Instructions: 1) All questions are compulsory.

c) Creative flexibility

- 2) Figures to the right indicate full marks.
- 3) Draw neat diagrams and give wherever necessary.

4) Use of logarithmic table and calculator is allowed.

#### Multiple choice questions. Q.1

- 1) is the process of creating something new. a) Business model
- 2) The term "Entrepreneur" has been derived from the word "entreprendre" which means:
  - a) To give b)
  - c) To choose
- 3) entrepreneurs neither introduce new changes nor adopt new methods innovated by others.
  - a) Innovative b)
  - C) Fabian d) Drone
- 4) DIC stands for
  - a) Disassembled Industries Centre
  - **District Industries Collaboration** b)
  - **District Industries Centre** C)
  - d) Developing Industries Centre
- SIDBI was set up as a subsidiary of 5)
  - IFCI a) IDBI b)
  - c) ICICI d) SFC
- A is a voluntary association of women in rural or urban areas formed 6) to take care of group welfare.
  - a) Self-Help Group b) SIDCO C)
- The basic purpose of is to earn profit. 7)
  - a) NGOs Government C)
- is barriers to entrepreneurship. 8)
  - Lack of capital a) C)

- b) Lack of resources
- Undeveloped infrastructure d) All of the above

Max. Marks: 40

08

SLR-FX-11

- d) Innovation
  - To undertake
- d) To decide

b) Modelina

- Imitative

- - DIC
- None of the above d)
- - Business b)
  - None of these d)

		SLR-FX-11
Q.2	<ul> <li>Answer any four of the following.</li> <li>a) What is business?</li> <li>b) What is entrepreneur?</li> <li>c) What is planning?</li> <li>d) Define Joint Stock Company.</li> <li>e) What is Women Entrepreneurship?</li> <li>f) What is Rural entrepreneurship?</li> </ul>	08
Q.3	<ul> <li>Write short notes on any two of the following:</li> <li>a) Functions of entrepreneurship</li> <li>b) Role of SHG IN Women Entrepreneurship Development</li> <li>c) Functions of DIC</li> <li>d) Types of business organization</li> </ul>	08
Q.4	<ul> <li>Answer any two of the following</li> <li>a) Explain types of entrepreneur.</li> <li>b) Write note on NABARD.</li> <li>c) Explain problems faced by rural entrepreneurs.</li> </ul>	08
Q.5	<ul><li>Answer any one of the following.</li><li>a) What is Business Plan? Explain importance of business plan.</li><li>b) Explain need and problems faced by woman entrepreneurs.</li></ul>	08

		E	conomics for Manager and	l Ma	inagerial Accounting
			ednesday, 25-01-2023 I To 02:00 PM		Max. Mar
Instr	uctio	2 3	) All questions are compulsory. ) Figures to the right indicate full ) Draw neat diagrams and give e ) Use of logarithmic table and Ca	quati	ions wherever necessary.
Q.1		ose t	he correct alternatives from the is known as the "Father of Eco	-	
	1)	,	Adam Smith Keynes	b) d)	J. B. Say
	2)	a)	nomic problems occur due to Unlimited wants Limited wants	b)	Unlimited resources Alternative use of resources
	3)	The call		tity c	lemanded to a change in price is
		a)	Law of demand Elasticity of demand		Demand schedule Utility
	4)		nogeneous product is the feature perfect competition monopolistic competition	b)	oligopoly
	5)		plus of Income over expenditure i Loss Financial benefits	b) d)	Profit Deficit
	6)	a)	ording to concept, every b Going concern Business entity	busin b) d)	2
	7)	a) c)	is not a current asset. Debtors Stock of goods	b) d)	Cash in hand Machinery
	8)	Tru a) c)	e & fair profit and loss of a compa Trading and Profit and loss a/c Trail balance		now by Balance sheet Journal entry
Q.2	a)	Defir	Any Four of the following: ne Economics. ne law of demand		

Oct/Nov-2022 **ENTREPRENEURSHIP** (Paper – II)

Seat No.

# Set P

- 08

- Q.2

  - Define law of demand b)
  - C) Define Market.
  - Define Accountancy. d)
  - Define Journal Book. e)
  - Define Balance Sheet. **f**)

Marks: 40

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

SLR-FX-12

### Q.3 Write short notes on any Two of the following.

- a) Scope of Business Economics
- b) Demand Schedule
- c) Golden Rules of Accounting
- d) Features of perfect competition market

### Q.4 Answer any two of the following.

- a) Explain any four Accounting Concepts and Conventions.
- b) Explain types of imperfect competition market.
- c) From the following information prepare Trading a/c of Zebra Trading Company for the year ended 31<sup>st</sup> March, 2022

Particulars	Debit (R)	Particulars	Credit (R)
Opening Stock	40,000	Sales	1,50,000
Wages	7,500	Purchase Return	10,000
Factory Rent	10,000		
Purchases	1,00,000		
Carriage	2,500		
Sales Return	10,000		

Note: Closing stock was Rs. 20,000

### Q.5 Answer any One of the following.

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

Date	Particulars	Amount (R)
01.01.2023	Business started business with cash	80,000
04.01.2023	Purchased goods for cash	40,000
05.01.2023	Deposited cash into Bank	15,000
09.01.2023	Sold goods for cash	25,000
19.01.2023	Sold goods to Miss. Sheetal on credit	10,000
25.01.2023	Paid Salaries	5,000

80

Sea No.	t		Set P
	B.So	c. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examiı	nation:
		Oct/Nov-2022	
		INDUSTRIAL CHEMISTRY (Paper – I)	
		Fundamental of Inorganic Chemistry	
		nte: Friday, 27-01-2023 Ma 00 PM To 02:00 PM	ax. Marks: 40
Instr	uctio	ons: 1) All questions are compulsory.	
		2) Figures to the right indicate full marks.	
		<ol> <li>Draw neat diagrams and give equations wherever necessary.</li> <li>Draw neat diagrams and give equations wherever necessary.</li> </ol>	
		<ol> <li>Use of logarithmic table and calculator is allowed. (At. Wts H-1, C-12, 0-16, N=14, Na-23, CI – 35.5)</li> </ol>	
		(A, W.S.H. H, O. 12, O. 10, H = 14, Hu = 20, OI = 50.0)	
Q.1	Cho	oose the correct alternatives from the options.	08
	1)	The BOD and COD is expressed in	
		a) g/l b) g/dm <sup>3</sup> c) mg/dm <sup>3</sup> d) kg/l	
	2)	, , , , ,	
	2)	In what form can an ionic compound conduct electricity? a) when dissolved in water b) as a solid	
		c) as a crystal d) when warmed slightly	
	3)	The formation of a crystal lattice is	
	,	a) endothermicb) exothermic	
		c) endergonic d) exergonic	
	4)	Hybridization of acetylene is	
		a) $dsp^2$ b) $sp^3$	
	-	c) sp <sup>2</sup> d) sp	
	5)	The part of atmosphere, surrounding the earth is called a) troposphere b) stratosphere	
		c) ionosphere d) exosphere	
	6)	Filtration usually removes impurity in water.	
	•,	a) dissolved salt b) bacterial	
		c) colloidal d) dissolved gaseous	
	7)	The N-N bond length in N <sub>2</sub> molecule is A°.	
		a) 1.09 b) 1.12	
		c) 1.06 d) 1.18	
	8)	MOT is discussed on the principle of	
		<ul> <li>a) Aufbau principle</li> <li>b) Pauli's exclusion principle</li> <li>c) Pearson's principle</li> <li>d) LCAO principle</li> </ul>	2
Q.2	Ans	swer the following questions. (Any Four)	08
	a)	Define the covalent and ionic bond.	
	b) c)	Give the resources of water. How the radius ratio affect the geometry	
	d)	Give the classification of air pollutants	

d)

- Give the classification of air pollutants. Give the conditions for successful overlap of atomic orbital. Give the importance of Born-Haber cycle. e)
- f)

### Q.3 Write Notes. (Any Two) 80 Source of air pollutant a) Characteristics of ionic solids b) S-S orbital overlap C) Q.4 Answer the following questions. (Any Two) 80 a) Explain the shape of P orbital. **b)** Bond order and stability of molecule. c) Give the environmental effects of CO<sub>2</sub> and CO. Attempt the following questions. (Any One) 08 Q.5 a) Give the physical methods for removal of suspended particle. **b)** Explain the formation of CH<sub>4</sub> molecule on the basis of hybridization.

Seat No.	t				Set	Ρ
	В.	Sc. (Entrepreneurship) (Seme	ster – I) (	(Old) (CBCS) Exa	mination:	
			ov-2022			
		INDUSTRIAL CHE Fundamental of				
		e: Saturday, 28-01-2023	U	2	Max. Marks:	40
Time	: 12:(	0 PM To 02:00 PM				
Instr	uctio	<ul><li>ns: 1) All questions are compulsor</li><li>2) Figures to the right indicate</li></ul>	•	3		
Q.1	Mul	tiple choice questions.				08
	1)	General formula of alkene is	 b)	СЦ		
		a) CnH <sub>2n-2</sub> c) CnH <sub>2n+2</sub>	b) d)	CnHn CnH2n		
	2)	Alkaline KMnO4 is used to detect		-		
		a) CHO c) CO	b) d)	Unsaturated OH		
	3)	Catalyst used in Friedel Craft rea	,			
	- /	a) Pt	b)	Ni		
	4)	c) AICI <sub>3</sub>	d)	Fe(OH)₃		
	4)	Benzene is <u>compound.</u> a) Non-aromatic	b)	Antiaromatic		
	-	c) Pseudoaromatic	d)	Aromatic		
	5)	In Lassaigne's test sulphur in org a) Na <sub>2</sub> S		pound is converted Na S	to	
		c) $Na_2So_3$	d)	Na <sub>2</sub> So <sub>4</sub>		
	6)	If compound contains 34% C, 60 a) 100			%.	
		a) 100 c) 34	b) d)	6 60		
	7)	For treatment of disorder of hear	0			
		a) Paracetamol c) Cardiac	b) d)	CNS Antibiotic		
	8)	Methyl orange is azo dye.	,			
		a) di c) tetra	b) d)	tri		
		c) tetra	d)	mono		
Q.2		wer the following. (Any Four)	10			08
	a) b)	Give any two qualities of good dy Define molecular & empirical form				
	c)	How will you detect nitrogen from				
	d) e)	What is chemotherapeutic agent Draw resonating structure of ben		example.		
	f)	State Huckel's rule.				
Q.3	Wri	e short notes. (Any Two)				08
	a) b)	Kolbe reaction for preparation of	alkane.			
	b) c)	Sulphonation of benzene Detection of Sulphur by carius m	ethod.			
	-					
					Page	e <b>1</b> of

# Q.4 Answer the following questions. (Any Two)

- a) Give any four qualities of ideal drug.
- **b)** Explain Witt's theory.
- c) Explain classification of dienes.

## Q.5 Answer the following questions. (Any One)

- a) Give two methods of preparation of cycloalkane. What is the action of H<sub>2</sub>/Ni & HBr on it?
- **b)** Define qualitative analysis. How will you estimate C & H by Liebigs cembustion method.

80

## B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: Oct/Nov-2022 **INDUSTRIAL MICROBIOLOGY - I Fundamentals of Microbiology**

Day & Date: Monday, 30-01-2023 Time: 12:00 PM To 02:00 PM

Seat

No.

Instructions: 1) All questions are compulsory.

- 2) Figures to the right indicate full marks.
- 3) Draw a neat labeled diagrams wherever necessary.

### Choose the correct alternative and rewrite the sentences again. Q.1 1)

- The scientist \_\_\_\_\_ proposed the phylogenic tree for living things.
  - Carlo Urbani Louis Pasteur a) b) Robert Koch d) Carl Woese C)
- In the growth curve of bacteria rapid increase in growth of bacteria is 2) observed known as phase.
  - a) Lag b) Logarithmic
  - Death Stationary C) d)
- 3) The microorganism, which uses atmospheric CO<sub>2</sub> as carbon source and solar light as source of energy is known as
  - a) Photoautotroph b) Chemoautotroph
  - C) Chemoheterotroph
- 4) The microorganism that can grow above 45°C temperature is called as
  - **Psychrophiles** a) b)
  - Thermophiles d) C)
- 5) The microorganisms which can grow best in very low concentration of oxygen is known as microorganisms.
  - a) Aerobic
  - Microaerophilic d) C)
- In the arrangement of flagella, many flagella dispersed randomly over the 6) whole surface of body of microbes is called as flagella. Monotrichous b)
  - a) Peritrichous
    - Amphitrichous
  - is used for sterilization of heat labile Microbial laboratory media.
  - Autoclaving b) Hot air Oven a) Chemical agents d)
    - Filtration C)

C)

7)

- The scientist \_\_\_\_\_ firstly demonstrated that Azatobacter a free living 8) nitrogen fixing bacteria.
  - Robert Koch a) C)

b) Martinus Beijerinick

Lophotrichous

Louis Pasteur d) Alexander Fleming

08

Max. Marks: 40

Ρ

SLR-FX-15

- d) Photoheterotroph
- - Basophiles
  - Mesophiles
- - Anaerobic
- Facultative

d)

b)

Q.2	Def a) b) c) d) e) f)	<b>Tine any four of the following.</b> Define Diauxic growth. Define disinfection. Define chemoautotroph. What is viroid and prion? What is the economic importance of algae? What is the function of capsule?	08
Q.3	Wri	te short notes on any two of the following.	08
4.0	a)	Discuss in brief classification of flagella according to flagellar arrangement and it's ultra structure.	•••
	b) c)	Describe in detail effect of temperature on microbial growth. Describe in brief sterilization of microorganisms by phenols and gaseous agents.	
Q.4	Ans	swer any two of the following.	08
<b>~</b>	a)	Describe in brief fluid mosaic model of cell membrane.	
	b)	Describe in brief sterilization by autoclaving.	
	c)	Give a detailed account on systematic and taxonomy of bacterial classification.	
Q.5	Ans	swer any one of the following.	08
	a)	Define growth. Describe in detail growth phases of bacteria.	
	h)	Explain in detail spontaneous generation verses biogenesis	

b) Explain in detail spontaneous generation verses biogenesis.

B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: Oct/Nov-2022 INDUSTRIAL MICROBIOLOGY - I Basic Techniques in Microbiology         Day & Date: Tuesday, 31-01-2023 Time: 12:00 PM To 02:00 PM       Max. Marks: 40         Instructions: 1) All questions are compulsory. 2) Draw nead diagrams wherever necessary. 3) Figures to the right indicate full marks.       Max. Marks: 40         Q.1       Choose the correct alternative (MCQ)       08         1)       Hydrogen peroxide is used fortext. a) Cagulase       b) Nitrate reduction c) Catalase       08         2)       In dark field microscope organisms appears a) Dark       b) Bright c) Opaque       0       Urease         3)       Neubauer chamber is used for a) Cell enumeration       b) Cell cultivation c) Cell preservation       d) Cell destruction         4)       Solidification of culture media is done by a) Agar Agar       b) Nacd c) Peptone       b) Nacd c) Peptone         5)       Milk agar is used for test. a) Urea hydrolysis       b) Starch hydrolysis c) Caseule       Sugar fermentation         6)       Maneval's method is used for test. a) Cell wall       b) Mycobacteria c) Metachromatic granules       b) Mycobacteria         6)       Maneval's method is used for test. a) Ciel wall       b) Mineral       d) Cell wall         6)       Maneval's method is used for test. a) Ciel wall       b) Micobacteria       d) M	Seat No.	t	Set	Ρ
INDUSTRIAL MICROBIOLOGY - I Basic Techniques in Microbiology         Day & Date: Tuesday, 31-01-2023       Max. Marks: 40         Time: 12:00 PM To 02:00 PM       Max. Marks: 40         Instructions: 1) All questions are compulsory. 2) Draw neat diagrams wherever necessary. 3) Figures to the right indicate full marks.       08         1) Hydrogen peroxide is used for text. a) Coagulase text. b) Nitrate reduction c) Catalase 0       08         2) In dark field microscope organisms appears a) Dark 0       Bright c) Opaque 0       08         3) Neubauer chamber is used for a) Cell enumeration b) Bright c) Opaque 0       Cell cultivation c) Cell preservation 0       Cell cultivation c) Cell preservation 0         4) Solidification of culture media is done by a) Agar Agar b) Nacl c) Peptone 0       Sugar fermentation 6) Maneval's method is used for staining. a) Cell wall b) Mycobacteria c) Metachromatic granules 0       Sugar fermentation 6) Maneval's method is used for staining. a) Cell wall b) Mycobacteria c) Metachromatic granules 0       Mikeral		B.S		
Day & Date: Tuesday, 31-01-2023       Max. Marks: 40         Time: 12:00 PM To 02:00 PM       Instructions: 1) All questions are compulsory.       2) Draw neat diagrams wherever necessary.       3) Figures to the right indicate full marks.         Q.1       Choose the correct alternative (MCQ)       08         1)       Hydrogen peroxide is used fortext.       a) Coagulase       b) Nitrate reduction         a)       Coagulase       b) Mitrate reduction       a) Dark         c)       Catalase       d) Urease       2)         ln dark field microscope organisms appears       a) Dark       b) Bright         c)       Opaque       d) Turbid       3)         Neubauer chamber is used for       a) Cell enumeration       b) Cell cuttivation         c)       Cell preservation       d) Cell destruction         4)       Solidification of culture media is done by          a)       Agar Agar       b) Nacl         c)       Peptone       d) Meat Extract         5)       Milk agar is used for       staining         a)       Cale hydrolysis       b) Starch hydrolysis         c)       Maxe			INDUSTRIAL MICROBIOLOGY - I	
Time: 12:00 PM To 02:00 PM       Instructions: 1) All questions are compulsory.       2) Draw neat diagrams wherever necessary.       3) Figures to the right indicate full marks.       08         Q.1 Choose the correct alternative (MCQ)       08       0       08         1) Hydrogen peroxide is used for text.       a) Coagulase       b) Nitrate reduction       08         c) Catalase       d) Urease       c) Catalase       d) Urease       0         a) Dark       b) Bright       c) Opaque       d) Turbid       3)       Neubauer chamber is used for       a) Cell enumeration       b) Cell cultivation         c) Cell preservation       d) Cell destruction       d) Cell destruction         d) Solidification of culture media is done by       a) Agar Agar       b) Nacl       c) Peptone       d) Meat Extract         5) Milk agar is used for test.       a) Urea hydrolysis       b) Starch hydrolysis       c) Hea hydrolysis       b) Sugar fermentation         6) Maneval's method is used for staining.       a) Cell wall       b) Mycobacteria       c) Metachromatic granules       d) Capsule         7)				
<ul> <li>2) Draw neat diagrams wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> <li>Q.1 Choose the correct alternative (MCQ)</li> <li>1) Hydrogen peroxide is used fortext. <ul> <li>a) Coagulase</li> <li>b) Nitrate reduction</li> <li>c) Catalase</li> <li>d) Urease</li> </ul> </li> <li>2) In dark field microscope organisms appears <ul> <li>a) Dark</li> <li>b) Bright</li> <li>c) Opaque</li> <li>d) Turbid</li> </ul> </li> <li>3) Neubauer chamber is used for <ul> <li>a) Cell enumeration</li> <li>b) Cell cultivation</li> <li>c) Cell preservation</li> <li>d) Cell destruction</li> </ul> </li> <li>4) Solidification of culture media is done by <ul> <li>a) Agar Agar</li> <li>b) Nacl</li> <li>c) Peptone</li> <li>d) Meat Extract</li> </ul> </li> <li>5) Milk agar is used fortest. <ul> <li>a) Urea hydrolysis</li> <li>b) Starch hydrolysis</li> <li>c) Casein hydrolysis</li> <li>d) Sugar fermentation</li> </ul> </li> <li>6) Maneval's method is used forstaining. <ul> <li>a) Cell wall</li> <li>b) Mycobacteria</li> <li>c) Metachromatic granules</li> <li>d) Capsule</li> </ul> </li> <li>7) oil is used during observation of micro Organism using oil immersion lens. <ul> <li>a) Cedar wood</li> <li>b) Biodiesel</li> <li>c) Palm</li> <li>d) Mineral</li> </ul> </li> <li>8) is used for preservation of cultures. <ul> <li>a) Lyophilizer</li> <li>b) Incubator</li> <li>c) McIntosh Jar</li> <li>d) Hot air oven</li> </ul> </li> <li>Q2 Answer any four of the following.</li> <li>Q8 a) Define resolving power.</li> </ul>				s: 40
<ul> <li>1) Hydrogen peroxide is used fortext.</li> <li>a) Coagulaseb) Nitrate reductionc Catalased) Urease</li> <li>2) In dark field microscope organisms appears</li> <li>a) Darkb) Brightc Opaqued) Turbid</li> <li>3) Neubauer chamber is used for</li> <li>a) Cell enumerationb) Cell cultivationc Cell preservationd) Cell destruction</li> <li>4) Solidification of culture media is done by</li> <li>a) Agar Agarb) Nacl</li> <li>a) Agar Agarb) Nacl</li> <li>b) Terptoned) Meat Extract</li> <li>5) Milk agar is used fortest.</li> <li>a) Urea hydrolysisb) Starch hydrolysisc) Casein hydrolysisd) Sugar fermentation</li> <li>6) Maneval's method is used forstaining.</li> <li>a) Cell vallb) Mycobacteriad) Capsule</li> <li>7)oil is used during observation of micro Organism using oil immersion lens.</li> <li>a) Cedar woodb) Biodieseld) Mineral</li> <li>8)is used for preservation of cultures.</li> <li>a) Lyophilizerb) Incubatord) Hot air oven</li> <li>Q2 Answer any four of the following.</li> <li>08 a) Define selective media.</li> <li>b) What is SPC?</li> <li>c) Define resolving power.</li> </ul>	Instr	uctio	2) Draw neat diagrams wherever necessary.	
<ul> <li>a) Coagulase</li> <li>b) Nitrate reduction</li> <li>c) Catalase</li> <li>d) Urease</li> <li>2) In dark field microscope organisms appears</li> <li>a) Dark</li> <li>b) Bright</li> <li>c) Opaque</li> <li>d) Turbid</li> <li>3) Neubauer chamber is used for</li> <li>a) Cell enumeration</li> <li>b) Cell cultivation</li> <li>c) Cell preservation</li> <li>d) Cell destruction</li> <li>4) Solidification of culture media is done by</li> <li>a) Agar Agar</li> <li>b) Nacl</li> <li>c) Peptone</li> <li>d) Meat Extract</li> <li>5) Milk agar is used for test.</li> <li>a) Urea hydrolysis</li> <li>b) Starch hydrolysis</li> <li>c) Casein hydrolysis</li> <li>d) Sugar fermentation</li> <li>6) Maneval's method is used for staining.</li> <li>a) Cell wall</li> <li>b) Mycobacteria</li> <li>c) Metachromatic granules</li> <li>d) Capsule</li> <li>7) oil is used during observation of micro Organism using oil immersion lens.</li> <li>a) Cedar wood</li> <li>b) Biodiesel</li> <li>c) Palm</li> <li>d) Mineral</li> <li>8) is used for preservation of cultures.</li> <li>a) Lyophilizer</li> <li>b) Incubator</li> <li>c) McIntosh Jar</li> <li>08</li> <li>a) Define selective media.</li> <li>b) What is SPC?</li> <li>c) Define resolving power.</li> </ul>	Q.1	Cho	oose the correct alternative (MCQ)	08
<ul> <li>c) Catalase</li> <li>d) Urease</li> <li>2) In dark field microscope organisms appears</li> <li>a) Dark</li> <li>b) Bright</li> <li>c) Opaque</li> <li>d) Turbid</li> <li>3) Neubauer chamber is used for</li> <li>a) Cell enumeration</li> <li>b) Cell cultivation</li> <li>c) Cell preservation</li> <li>d) Cell destruction</li> <li>4) Solidification of culture media is done by</li> <li>a) Agar Agar</li> <li>b) Nacl</li> <li>c) Peptone</li> <li>d) Meat Extract</li> <li>5) Milk agar is used for test.</li> <li>a) Urea hydrolysis</li> <li>b) Starch hydrolysis</li> <li>c) Casein hydrolysis</li> <li>d) Sugar fermentation</li> <li>6) Maneval's method is used for staining.</li> <li>a) Cell wall</li> <li>b) Mycobacteria</li> <li>c) Metachromatic granules</li> <li>d) Capsule</li> <li>7) oil is used during observation of micro Organism using oil immersion lens.</li> <li>a) Cedar wood</li> <li>b) Biodiesel</li> <li>c) Palm</li> <li>d) Mineral</li> <li>8) is used for preservation of cultures.</li> <li>a) Lyophilizer</li> <li>b) Incubator</li> <li>c) McIntosh Jar</li> <li>d) Hot air oven</li> </ul> Q2 Answer any four of the following. 08 a) Define resolving power.		1)		
<ul> <li>2) In dark field microscope organisms appears</li></ul>			, 0	
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c) Define resolving power.	Q.2		•	00
		-		
$\mathbf{u}_{j}$ what is use of phase contract microscope?		-		
e) Which medium is used for methyl Red test?				
f) Define stains.		-	•	

Q.3	Wri a) b) c)	<b>te short notes on any two.</b> Starch hydrolysis test Cell wall staining Use of Electron microscope.	08
Q.4	Ans a) b) c)	wer any two of the following. Describe in brief Acid fast staining. Describe in brief differential media. Give the methods for obtaining pure culture.	08
Q.5	Ans a) b)	wer any one of the following. Describe in detail Gram staining. Describe in detail IMvic test.	80

		Cell Bio	logy						
	Day & Date: Wednesday, 01-02-2023 Time: 12:00 PM To 02:00 PM								
Inst	ructio	<ul> <li>All questions are compulsory.</li> <li>2) Draw neat diagrams and give e</li> <li>3) Figure to the right indicate full n</li> <li>4) Use of logarithmic table and cal (At. Wts.: H=1, C=12, O=16, N=14)</li> </ul>	narks. culato	or is allowed.					
Q.1	Cho	Choose the correct alternative and rewrite the following sentences.							
	1)	<ul><li>This is the site where detoxification of</li><li>a) Cytosol</li><li>c) Rough endoplasmic reticulum</li></ul>	b)						
	2)	The main function of nucleolus is a) rRNA synthesis c) ATP production	b) d)	DNA synthesis Protein synthesis					
	3)	Oncogenes are a) thalassemia genes c) cancer genes	b) d)	anemia genes color blindness genes					
	4)	A network of microfilaments and mic a) endoplasmic skeleton c) cytoskeleton	rotubi b) d)	vertebral skeleton					
	5)	The pH of a lysosome is a) Acidic c) Neutral	b) d)	Basic Depends on the cell type					

# B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: Oct/Nov-2022 **INDUSTRIAL BIOTECHNOLOGY (Paper - I)**

# Seat No.

Set

Ρ

Max. Marks: 40

08

- sis
- - genes

- hormones requires a cell surface receptor for its action. 6)
  - Progesterone a) Growth factors b)
    - All of the above c) Adrenaline d)
- 7) Receptor is removed from cell surface in
  - a) Adaptation Amplification b)
  - c) Integration Specificity d)
- Cytoskeletal filaments are polymers of 8) a) proteins carbohydrates b)
  - ribonucleic acids c) deoxyribonucleic acids d)

### Answer the following: (Any Four) Q.2

- Define Microfilaments. a)
- b) What are micromolecules?
- Enlist functions of Lysosomes. C)
- Draw structure of Chloroplast. d)
- Define cell motility. e)
- Define cell fractionation. f)

# Q.3 Write short notes. (Any Two)

- a) Discuss in detail about Fluid Mosaic Model.
- **b)** Write a note on Structure and functions of Lysosomes.
- c) Explain regulation of receptor expression and function.

# Q.4 Answer the following questions. (Any Two)

- a) Write a note on structure and functions of Endoplasmic reticulum.
- b) Define Cell and add a note on classification of organisms by cell structure.
- c) Discuss in detail about structure and functions of Nucleus.

## Q.5 Answer the following questions. (Any One)

- a) Define Carcinogenesis and write a note on characteristics and molecular basis of cancer.
- **b)** Write a note on structure, function, Genomes and biogenesis of Mitochondria.

08

08

Seat No.	t			Set	Ρ				
B.Sc. (Entrepreneurship) (Semester – I) (Old) (CBCS) Examination:									
Oct/Nov- 2022 INDUSTRIAL BIOTECHNOLOGY (Paper - II)									
Animal and Plant Physiology									
		te: Friday, 24-03-2023 00 PM To 02:00 PM	Max. I	VIAIKS	. 40				
<ul> <li>Instructions: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give equations wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> <li>(At. Wts.:H=1, C=12, O=16, N= 14, Na =23, Cl = 35.5)</li> </ul>									
Q.1		bose the correct alternative and rewrite the following sentences	s.		08				
	1)	Duration of one muscle twitch is a) 0.1 seconds b) 1 second c) 5 seconds d) 10 seconds							
	2)	Neurilemma cells are also calleda) Odontoblastsb) Photoreceptorsc) Ganglionsd) Schwann Cells							
	3)	Chemical messengers secreted by ductless glands are called a) Lymph b) Plasma c) Hormones d) Platelets							
	4)	hormone is not a growth inhibitor. a) Abscisic acid b) Dormin c) IAA d) Ethylene							
	5)	is a small branch of an artery that leads into a capillary. a) Capillaria b) Arteriole c) Areolas d) None of the above							
	6)	An aquatic fern that performs nitrogen fixation is a) <i>Nostoc</i> b) <i>Azolla</i> c) <i>Salvinia</i> d) <i>Salvia</i>							
	7)	In muscle contraction, this ion is essential a) Cl							
	8)	Conversion of ammonia to nitrite and then to nitrates is called a) Nitrification b) Assimilation c) Ammonification d) Denitrification							
Q.2	Ans a) b) c) d) e)	swer any four of the following: Define plasmolysis. Explain micro & macro nutrients Define plasma proteins. Discuss ammonium assimilation in plants. Define seed dormancy. What is hypo & hyper-secretions?			08				

Page **2** of **2** 

Q.3	Writ a) b) c)	e short notes on any two of the following: Discuss in detail about Mechanism of urine formation. Add a note on thyroid endocrine gland. Define and explain detail about growth curve.	08				
Q.4	Ans a) b) c)	<b>wer any Two of the following:</b> Write a note on Importance of water to plant life. Explain inorganic and molecular nitrogen fixation Describe in detail about plant growth hormones (cytokinins, abscisic acid)	08				
Q.5	Ans a) b)	<b>wer any one of the following:</b> Define Circulation and explain in detail about Mechanism of working of heart. Define photophosphorylation and a note on calvin cycle.	80				
Seat							
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No.		Set F	)				
В	B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: Oct/Nov-2022						
		ENGLISH (Compulsory)					
	Doto	Literary Voyage	^				
		: Tuesday, 07-02-2023 Max. Marks: 4 ) PM To 02:00 PM	U				
Instru	uctior	<ul><li>s: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>					
Q.1	<b>Rew</b> 1)	According to Francis Bacon, in discourse must be used carefully and economically.	8				
		a) Fire b) Wit c) Weapons d) Gadgets					
	2)	Bertrand Russell was against the learning.a) Practicalb) Experimentalc) Bookishd) Experiential					
	3)	"The Spirit of Freedom" was actually written by Tagore from America for Indians. a) A poem    b) A letter					
		c) A song d) A gazal					
	4)	Niyi Osundare is basically about the regeneration of the deteriorating earth.					
		<ul><li>a) Hopeful</li><li>b) Hopeless</li><li>c) Pessimistic</li><li>d) Without hope</li></ul>					
	5)	Christina Rossetti didn't want her lover to be remembering her.					
		a) happy b) sad c) pleased d) blissful					
	6)	The synonym of 'accountable' isa) hopelessb) responsiblec) richd) economical					
	7)	The antonym of 'objective' isa) criticalb) actualc) subjectived) factful					
	8)	I saw a cuckoo, when I the window of the room. a) opening b) opens c) open d) opened					
Q.2	a) b)	ver the following questions briefly. (Any Four)1What subjects should be kept away from jest according to Bacon?1What did Bertrand Russell as a schoolboy know about the squirrels?1What was condition of freedom in a nation like America?1How is water pollution depicted in "Our Forth Will Not Die"1	2				

- d) How is water pollution depicted in "Our Earth Will Not Die"?
- e)
- What was Alexander Pope's source of comfort? Why did Christina Rossetti allow her lover to forget her? f)

Q.3 a) Write an informal letter addressing your friend and inviting him to spend the 10 Diwali vacation with you and your family.

## OR

- **b)** Describe the process of making tea. Use the instructions beginning from the initial preparation for making tea up to serving the tea.
- Q.4 Write a presentation on the topic "India and Democracy" by preparing slides on 10 the basis of the following data:
  - a) India's freedom struggle
  - **b)** Indian freedom fighters
  - c) India's independence
  - d) Indian constitution
  - e) Democracy
  - f) India as a nation
  - g) Place of India in the world
  - **h**) Future of India

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Sea No.	t		Set	Ρ
	3.Sc	c. (Entrepreneurship) (Semester - II) (New) (CBCS) Examina	∟ tion:	
		Oct/Nov-2022		
		ENTREPRENEURSHIP SCIENCE (Paper – III) Principles of marketing & Management accounting		
Dav	& Da		Marks:	40
		:00 PM To 02:00 PM		
Instr	uctio	<ul> <li>ons: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw a neat diagrams and give equations wherever necessary.</li> <li>4) Use of logarithmic table and Calculator is allowed. (At. Wts. H=1,C=12,O=16,N=14,Na=23,C1=35.5)</li> </ul>		
Q.1		oose the correct alternatives from the options.		08
	1)	is the Father of Modern Marketing. a) Abraham Maslow b) Lester Wundeman		
		c) Peter Drucker d) Philips Kotlar		
	2)	Marketing is a process of which aims at a) Production b) Profit Making c) The satisfaction of customer needs d) Selling Product		
	3)	The companies that targets markets very narrowly is called		
		a) Mass Marketing b) Segmental Market c) Niche Markets d) Micro Marketing		
	4)	The major focus of the societal Marketing concepts is		
	,	a) Profit Only b) Society well being Only		
		c) Satisfaction of customer only d) All of these		
	5)	Markets begins and ends with		
		a) Consumer b) Transport c) Price d) Product		
	6)	create a particular image in the minds of consumer.		
	,	a) Branding b) Personal Selling		
		c) Grading d) Product Planning		
	7)	is language of Business which used to communicate financial Information.		
		a) Accounting b) Marketing		
		c) Profit d) Pricing		
	8)	Overall Profitability ratio are based on		
		a) Investment b) Sales c) Both a & b d) None of these		
0.2	۸ به -			00
Q.2	Ans a)	swer Any Four of the following: Define Market.		08
	b)	Define Segmentation.		
	c) d)	Define Research. Define F-Marketing		

Page 1 of 2

	e) f)	Define Working Capital. Define Management	
Q.3	a)	<b>te short notes on any Two of the following.</b> Types of Marketing. Advantage of Segmentation. Problem of Working Capital.	08
Q.4	Ans a) b) c)	wer any two of the following. What is Nature and Scope of Marketing? Explain the types of Ratio. Explain the Difference Selling & Marketing.	08
Q.5	Ans a) b)	<b>swer any One of the following.</b> Explain the Objective & Scope of Management Accounting. Explain the benefit and Problem of E-Marketing.	08

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Seat	t			Set P				
E	B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: Oct/Nov-2022							
		Entrepreneurship So	-					
		Cost accounting and I	Proje	ect Management				
		e: Thursday, 09-02-2023 0 PM To 02:00 PM		Max. Marks: 40				
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate ful</li> <li>3) Draw neat labelled diagrams v</li> <li>4) Use of log table and calculate</li> </ul>	vhere	ver necessary.				
Q.1	Mult	iple choice questions.		08				
	1)	<ul><li>Basic objective of cost accounting i</li><li>a) tax compliance</li><li>c) cost ascertainment</li></ul>	s b) d)	 financial audit profit analysis				
	2)	Overhead cost is the total of a) all indirect costs c) indirect and direct costs	b) d)	all direct costs all specific costs				
	3)	Cost of sales plus profit is a) selling price c) value of goods produced	b) d)	value of finished product value of stocks				
	4)	Audit fess is a part of a) works on cost c) distribution overhead	b) d)	selling overhead administrative overhead				
	5)	<ul> <li>is an extension of job costing</li> <li>a) Process Costing</li> <li>c) Contract Costing</li> </ul>	b)	Batch Costing Operation Costing				
	6)	MSME act came into force in year _ a) 2000 c) 2004	b) d)	2002 2006				
	7)	is first stage of project mana	geme	nt.				
		<ul><li>a) Project Implementation</li><li>c) Project Identification</li></ul>	b) d)	Project Formulation Project Selection				
	8)	Project is endeavor. a) Routine c) Unending	b) d)	Temporary Continuous				
Q.2	Ansv a) b) c) d) e) f)	wer the following questions. (Any Define cost. Define job costing. Define marginal costing. What is prime cost? What is tender? Define Small Scale Industry.	Four)	08				

Q.3	<ul> <li>Write short notes. (Any Two)</li> <li>a) Explain elements of cost sheet.</li> <li>b) Explain importance of SSIs.</li> <li>c) Explain importance of project management.</li> </ul>	08
Q.4	<ul> <li>Answer the following questions. (Any Two)</li> <li>a) Explain objectives of cost accounting.</li> <li>b) Explain project life cycle.</li> <li>c) Explain roles and responsibilities of project manager.</li> </ul>	08
Q.5	<ul> <li>Answer the following questions. (Any One)</li> <li>a) Explain classification of projects.</li> <li>b) Explain problems of small scale industries.</li> </ul>	08

**INDUSTRIAL CHEMISTRY (Paper – III) Fundamentals of Physical Chemistry** Day & Date: Friday, 10-02-2023 Time: 12:00 PM To 02:00 PM Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat diagrams and give equations wherever necessary. 4) Use of log table and scientific calculator is allowed. (At. Wts. H=I, C=12, 0=16, N=14, Na=23, CI= 35.5) a) Molarity b) Molality Mole fraction d) Normality C) b) second a) first third d) zero C)

#### Choose the correct alternatives from the options. Q.1

The number of moles of solute dissolved per liter of solution is called as 1)

B.Sc. (Entrepreneurship) (Sem-II) (New) (CBCS) Examination: **Oct/Nov-2022** 

- Photochemical union of H<sub>2</sub> and Cl<sub>2</sub> is an example of \_\_\_\_\_ order reaction. 2)

#### 3) Gas which obeys the gas laws at all temperatures and pressures is called

as \_\_\_\_\_.

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- a) ideal gas C) real gas
- $P_c$ ,  $V_c$  and  $T_c$  are known as \_\_\_\_\_. 4)
  - a) gas constants
  - c) critical constants
- b) van der Waals constants
- d) critical constants

b) non ideal gas d) all of these

- The SI unit of viscosity is \_\_\_\_\_. 5)
  - b) newton a) poise
  - C) dyne d) pascal
- 6) The ratio of weight of one component to the total weights of all components in the solution is called as \_\_\_\_\_ of that component.
  - mole fraction b) weight fraction a)
  - fraction d) none of these C)
- The number of molecules whose concentration changes during the chemical 7) reaction is called \_\_\_\_\_. b) velocity
  - a) molecularity
  - d) rate c) order
- The reaction between K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> and KI is an example of order reaction. 8)
  - first a) C) third
- b) second d) zero

Max. Marks: 40

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# Q.2 Answer Any Four of the following:

- a) Define:
  - 1) Normality 2) Mole
- **b)** Define first order reaction. Give the SI unit of velocity constant for the first order reaction.
- c) Which are the causes of the deviations of the real gases from ideal behavior?
- d) What is Poiseulle's equation? Explain the terms involved in it.
- e) Define pseudo-unimolecular reaction.
- f) Which are the requirements for the liquefaction of gases?

# Q.3 Write short notes on any Two of the following.

- a) Mole fraction method of expression for concentration of solution
- **b)** Factors affecting the rate of reaction
- c) Joule-Thomson effect

# Q.4 Answer any two of the following.

- Write the van der Waal's equation. Mention the significance of the terms involved in it. The van der Waals constants for HCI are a = 0.3704 N m<sup>4</sup> mol<sup>-2</sup> and b= 4.08x 10<sup>-5</sup> m<sup>3</sup>. Find its critical constants P<sub>c</sub>, V<sub>c</sub> and T<sub>c</sub>. (Given R= 8.314 J K<sup>-1</sup> mol<sup>-1</sup>)
- **b)** Show that for the first order reaction, time taken to complete half of a reaction is independent of initial concentration of the reactant.
- **c)** Distinguish between order and molecularity of a reaction.

# Q.5 Answer any One of the following.

- a) Sketch and explain the construction and working of Ostwald's viscometer.
- **b)** Discuss drop-weight method for the determination of surface tension.

Sea No.	t	Set	Ρ
	В	B.Sc. (Entrepreneurship) (Sem-II) (New) (CBCS) Examination: Oct/Nov-2022 INDUSTRIAL CHEMISTRY (Paper – IV) Fundamentals of Analytical Chemistry	
		ate: Saturday, 11-02-2023 Max. Marks: 4 :00 PM To 02:00 PM	40
Instr	ructio	<ul><li>ons: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>	
Q.1	<b>Cho</b> 1)	oose the correct alternatives from the options.         A homopolymer carries         a) one type of monomer       b) different type of monomer         c) mixed types of monomers       d) elastomer	80
	2)	Octane number is the scale used to determine quality of food. a) anti knocking b) hydro forming c) knocking d) none	
	3)	The protein of milk consists a) Casein b) Fat c) Glucose d) Vitamins	
	4)	The polymer which softens on heating & harden on cooling is called as a) Rubber b) Elastomer c) Thermoplastic d) Plastic	
	5)	Refining of petroleum yields major fractions. a) 1 b) 5 c) 2 d) 7	
	6)	Cis platin has activity. a) Anti-diabetic b) Antifungal c) Anti-tubercular d) Anticancer	
	7)	When Ca & Mg are present in water, water is known as water. a) soft b) hard c) normal d) acidic	
	8)	All natural processes area) Non spontaneousb) Reversiblec) Adiabaticd) Spontaneous	
Q.2	<b>Ans</b> a) b) c) d) e) f)	swer the following questions. (Any Four) Define monomer & elastomer. State Hess law of mixing. Define calorific value. Name the methods of adulteration of milk Define COD. Define enthalpy.	08

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Q.3	<ul> <li>Write Notes. (Any Two)</li> <li>a) Chemical composition of milk</li> <li>b) Petroleum refining</li> <li>c) Difference between spontaneous &amp; non spontaneous process.</li> </ul>	08
Q.4	<ul> <li>Answer the following questions. (Any Two)</li> <li>a) Explain homogenous &amp; heterogenous polymers.</li> <li>b) Explain Joule Thomson effect.</li> <li>c) Explain or give statements second law of thermodynamics.</li> </ul>	08
Q.5	<ul> <li>Attempt the following questions. (Any One)</li> <li>a) Explain essential nutrients of plants &amp; write their functions.</li> <li>b) Explain cracking &amp; octane number of fuel.</li> </ul>	08

	B.Sc. (Entrepreneurship) (Sem - II) (New) (CBCS) Examination: Oct/Nov-2022						
	INDUSTRIAL MICROBIOLOGICAL – III						
		Fundamentals of Industrial Microbiology e: Monday, 13-02-2023 Max. Marks: 4 0 PM To 02:00 PM	.0				
Instr	uctio	ns: 1) All questions are compulsory.					
		<ul><li>2) Figures to the right indicate full marks.</li><li>3) Draw neat diagram and give equation wherever necessary.</li></ul>					
Q.1	<b>Cho</b> 1)	ose the correct alternatives from the options.0 technique used for screening of organic acid producers.0a) Crowded plateb) Giant colony	8				
		c) pH indicating dye plate d) streak plate					
	2)	is the major problem in continuous fermentation.a) Sterilizationb) Waste Disposalc) Contaminationd) Recovery					
	3)	is used for control of foam in production medium during fermentation.a) Agitatorb) Siliconc) Spargerd) Areator					
	4)	Pilot scale Fermenter has liter capacity.         a) 15 -1000 L       b) 10 -12 ml         c) 10 -12 L       d) 15 -1000 ml					
	5)	is not the method of strain improvement.a) Mutationb) Replica plate methodc) Protoplast fusiond) Recombination					
	6)	Whey is the waste generated from industry.a) Cornb) Dairyc) Confectionaryd) Paper and pulp					
	7)	The configuration and composition obtained in laboratory scale or flasklevel study is extrapolated for large scale production is called asa) Strain improvementb) Inoculum Developmentc) Scale upd) Downstream Processing					
	8)	criteria is not used for selection of raw material for production medium for submerged fermentation. a) It should be cheap b) It should be easily available c) It should be easily sterilizable d) It should be water insoluble					
Q.2	Ansv a) b)	<b>wer Any Four of the following: 0</b> Write in short about scope of Industrial Microbiology. Define Batch and Continuous fermentation.	8				

Seat

No.

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# Q.

- ous ie
- Define Primary screening. C)
- Define D value and write in short about its significance. d)
- Define Secondary Metabolite and five any two examples. e)
- Enlist the various types of fermentation. f)



## Q.3 Write short notes on any Two of the following.

- a) Write note on process used for development of yeast inoculum.
- b) Write in short about filtration as an efficient continuous sterilizing procedure.
- c) Define precursors and write in short about use of precursors in fermentation.

## Q.4 Answer any two of the following.

- a) Differentiate between solid state and liquid state fermentation.
- **b)** Write note on methods used for preservation and maintenance of industrial strain.
- c) Write in short about Screening of antibiotic producers.

## Q.5 Answer any One of the following.

- a) Define strain improvement and describe in detail about various methods used for strain improvement.
- **b)** Describe in detail the structure of typical Fermenter with neat labeled diagram.

08

80

	Day & Date: Tuesday, 14-02-2023 Max. Marks: 40 Time: 12:00 PM To 02:00 PM					
-	Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat and labeled diagram wherever necessary.					
Q.1	<ul> <li>Q.1 Choose the correct alternatives from the options.</li> <li>1) Dissolved oxygen probe is used for maintaining of fermentation. <ul> <li>a) only aeration</li> <li>b) only agitation</li> <li>c) both aeration and agitation</li> <li>d) temperature</li> </ul> </li> <li>2) Data obtained from have been feed to the computer for fermentation control.</li> </ul>					
		a) sensors b) valves c) computer d) nutrients				
	3)	Speed of agitation is measured using unit. a) RPM b) RSM c) RTM d) RAM				
<ul> <li>4) Acetone and ethanol can be separated from the mixture using</li> <li>technique.</li> <li>a) filtration</li> <li>b) centrifugation</li> <li>c) fractional distillation</li> <li>d) precipitation</li> </ul>						
	5)	The recovery and purification of fermentation products refersa) downstream processingb) upstream processingc) incubationd) inoculation				
	6)	is measured of animal in Pyrogen testing by LAL test. a) moisture b) pH c) humidity d) temperature				
	7)	The higher the BOD, thea) lower the water pollutionb) lesser the bacteria in itc) more the water pollutiond) more the air pollution				
	8)	Fermentation economics dependent ona) Upstream processingb) Downstream processingc) Labor costd) All of these				
Q.2	Expl a) b) c) d) e)	Iain Any Four of the following:08ContaminationPrecipitationBrothAssayRecycling of water				

**Basics Techniques in Industrial Microbiology** Day & D

Seat

No.

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

# Set P

SLR-FX-25

- 3)
- 4)

Oct/Nov - 2022 **INDUSTRIAL MICROBIOLOGY – IV** 

- 5)
- 6)
- 7)
- 8)

# Q.2 E

- a)
- b)
- C)
- d)
- e) Recycling of water
- **f**) Legal aspects

Q.3	a)	e short notes on any Two of the following. Control of process parameters Chromatography Principles of bioassay	80
Q.4	Ansv a) b) c)	<b>wer any two of the following.</b> Write in brief on Effluent treatment. Describe in brief 'Plan for industry'. Explain in brief various Aseptic techniques.	08
Q.5	Ansv a) b)	<b>wer any One of the following.</b> Explain in detail sterility testing and pyrogen testing. Describe in detail various product recovery methods.	80

	Oct/Nov -2022						
	INDUSTRIAL BIOTECHNOLOGY (Paper – III)						
	Basics of Biomolecules						
	Day & Date: Wednesday, 15-02-2023 Max. Marks: 40 Time: 12:00 PM To 02:00 PM						
Instr	uctio	<b>ns:</b> 1	) All questions are comp	ulsory.			
			) Figures to the right indi				
		3	) Draw neat and labeled	diagram whe	erever necessary.		
Q.1	Rew	/rite t	he following sentences	s by choosin	g the correct alternative:	08	
	1)		simplest amino acid is		<b>J</b>		
	-	a)	Alanine		Asparagine		
		c)	Glycine	d)	Tyrosine		
	2)		bohydrates are also know	wn as	-		
		a)	Hydrates of carbon	b)			
		c)	Glycolipids	,	Polysaccharides		
	3)	$\overline{\mathbf{a}}$	is a component of th				
		a) c)	Retinol Pantothenic acid	,	Retinoic acid Pyridoxine		
	<b>A</b> \	,		,	r yndoxine		
	4)	a)	nature of an enzyme is Carbohydrate	 b)	Protein		
		c)	Lipid	d)	Vitamin		
	5)	,	vitamin helps in bloc	od clottina.			
	- /	a)	Vitamin A	b)	Vitamin D		
		c)	Vitamin C	d)	Vitamin K		
	6)	The	difference between ami				
		a)	Bonding of carbonyl gro				
		b) c)	Bonding of nitrogen in t		amide and carbonyl group		
		d)	Bonding of nitrogen in t				
	7)	,	leoside contains	-	F		
	• ,	a)	base-phosphate		base-sugar-phosphate		
		,	base-sugar		sugar-phosphate		
	8)	A	is a biocatalyst the	at increases t	he rate of the reaction with	but	
			ng changed.				
			Aluminum oxide	,	Enzyme		
		C)	Silicon dioxide	d)	Hydrogen peroxide		
Q.2	Ans	wer A	Any Four of the followir	ng:		08	
-	a)	Mon	osaccharides	•			
	b) Sphingolipids						

- Sphingolipids b)
- Protein Purification C)
- Specific activity d)
- Nucleosides & Nucleotides e)
- f) Cholesterol

No. B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: Oct/Nov -2022

Seat

# SLR-FX-26

Set Ρ

# Q.3 Write short notes on any Two of the following. a) Write a note on Double helical model of DNA structure. b) Explain Fibrous and globular proteins. c) Describe different Level of structural organization of proteins. Q.4 Answer any two of the following. a) Explain denaturation and renaturation of DNA. b) Write a note on fat soluble vitamins. c) Add a note on Glycoprotein's and their biological functions. Q.5 Answer any One of the following. a) Write a note on Classification, nomenclature and properties of fatty acids.

b) Write a detailed note on Physical & chemical properties of Nucleic acids.

Seat No.

# B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: Oct/Nov-2022 **INDUSTRIAL BIOTECHNOLOGY (PAPER - IV)**

**Basics of Metabolism** 

Day & Date: Thursday, 16-02-2023 Time: 12:00 PM To 02:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

#### Q.1 Choose the correct alternatives from the options.

- A kinase is an enzyme that 1)
  - uses ATP to add a phosphate group to the substrate a)
  - removes water from a double bond b)
  - removes phosphate groups of substrates C)
  - uses NADH to change the oxidation state of the substrate d)
- 2) Chemical compounds involved in the process of metabolism is known
  - as
  - Radicals a) Catabolites C)
- b) Intermediates Metabolites d)

d) Protein

d) Carbohydrate

- Salvage pathway is used in the synthesis of 3)
  - Amino acid Nucleotide a) b)
  - Fatty acid C)
- 4) is the biosynthetic source of all steroid hormones. b) Carbohydrate
  - Cholesterol a)
  - Ketone bodies C)
- 5) Amino acids are mostly synthesised from a)
  - Volatile acids b) fatty acid
  - C)  $\alpha$  – ketoqlutaric acid d) mineral salts

6) The enzymes for  $\beta$ -oxidation are present in

- Nucleus Mitochondria a) b)
- Golgi apparatus C) d) Cytosol

7) Salvage pathway is used in the synthesis of

- Carbohydrate a) b) Amino acid
- Nucleotide d) Fatty Acid C)
- 8) Glycolysis is the conversion of
  - Fructose into phosphoenolpyruvate a)
  - b) Glucose into pyruvate
  - Glucose into phosphoenolpyruvate C)
  - Fructose into pyruvate d)

Max. Marks: 40

**08** 



Q.2	Ans a) b) c) d) e) f)	wer Any Four of the following: Metabolism Coricycle Transamination Significance of Ketogenesis Anabolism and Catabolism Nuleotidyl group transfer	80
Q.3	Writ a) b) c)	<b>te short notes on any Two of the following.</b> Write a note on HMP pathway. Explain monounsaturated and poly-unsaturated fatty acids. Add a note on Biosynthesis of amino acids.	08
Q.4	Ans a) b) c)	<b>wer any two of the following.</b> Explain salvage pathway of purines. Describe metabolism of glycerol. Write a note on TCA cycle.	08
Q.5	Ans a) b)	wer any one of the following. Write a detailed note on Glycolysis. Add a note on Biodegradation of amino acids.	08

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

Entrepreneurship (Paper – V)

# **Principles of Business Management & Business Organization**

Day & Date: Tuesday, 21-02-2023 Time: 09:00 AM To 11:00 AM

Seat No.

Instructions: 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 Multiple choice questions.

- Management is need at 1)
  - Top level a)
    - lower level d) All level C)
- 2) Father of Administrative management is
  - F.W. Taylor a)
  - Henry Fayol C)
- 3) Planning is
  - forward looking a)
  - backward looking b)
  - C) both forward and backward looking
  - None of the above d)
- introduced the functional type of organization. 4)
  - F.W. Taylor b) Chester Bernard a)
  - Allen C) d) Max Weber
- 5) The first step in decision making is to:
  - establish priorities a)
  - establish specific goals and objectives b)
  - identify and define the problem C)
  - None of the above d)
- theory explains that there are two separate factors influence 6) motivation. b) Maslow's need hierarchy theory
  - Adam's Equity theory a)
  - Herzberg's two factor theory d) McGregor's Theory X and Theory Y C)
- 7) A leader should have
  - Technical Knowledge a)
  - d) All of these Initiative C)
- 8) Deal with routing and repetitive problems is a
  - programmed decision a) major decision C)
- b) non-programmed decision
- d) minor decision

b) Empathy

b) Max Weber

b) Middle level

d) Elton Mayo

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Max. Marks: 40

Q.2	Ans	wer the following questions. (Any Four)	08
	a)	Define Business.	
	b)	Define Decision making.	
	C)	Define Motivation	
	d)	Define Business Organization.	
	e)	Define Control.	
	f)	What is Autocratic Leadership?	
Q.3	Writ	e short notes. (Any Two)	08
	a)	Functions of management	
	b)	Types of decision	
	C)	Roles of manager	
	d)	Need for control	
Q.4	Ans	wer the following questions. (Any Two)	08
	a)	Explain importance of business management.	
	b)	McGregor's Theory X and Theory Y	
	c)	Explain importance of motivation.	
Q.5	Ans	wer the following questions. (Any One)	08
	a)	What is planning? Explain process of planning.	
	b)	Explain function and qualities of leader.	

		SLR-FX-2	29
Seat No.	t	Set	Ρ
В	8.Sc.	(Entrepreneurship) (Semester - III) (New) (CBCS) Examination: Oct/Nov-2022 Entrepreneurship (Paper-VI) Advanced Accountancy & Auditing	
		e: Wednesday, 22-02-2023 Max. Marks: 0 0 AM To 11:00 AM	40
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat labeled diagrams wherever necessary.</li> </ul>	
Q.1	Chc 1)	ose the correct alternatives from the options.Current Assets - Current Liability =a) Working Capitalb) Fixed Capitalc) Total Capitald) None of these	08
	2)	Payment Key in Tally =         a) F4       b) F5         c) F6       d) F7	
	3)	Sales key in tally =         a) F4       b) F5         c) F6       d) F8	
	4)	Purchase key in tally =         a) F4       b) F8         c) F6       d) F9	
	5)	Golden Rules of Accounting area) Personalb) Realc) Nominald) All of these	
	6)	To select payroll voucher from Inventory Voucher/Accounting Screena)CTRL+F1b)CTRL+F2c)CTRL+F4d)CTRL+F8	
	7)	To Select Contra Voucher         a) F4       b) F6         c) F5       d) F8	
	8)	<ul> <li>Qualified audit report means</li> <li>a) Pending report</li> <li>b) Non submission report</li> <li>c) Clear report</li> <li>d) Auditor express opinion with reservation of material nature but not pervasive</li> </ul>	
Q.2	Ans a) b) c) d) e)	wer the following questions. (Any Four) Explain concept of Goods and Service Tax (GST). Explain concept of Value Added Tax (VAT). Explain Classification of Accounts in accounting. Company Creation - Process in tally.	08

e) Ledger Creation-Process in tally.
f) Format of Voucher – Payments.

## Q.3 Write Notes. (Any Two)

- a) Explain Internal Audit.
- **b)** Explain Loss of Profit by Fire.
- c) Write detailed note on statutory audit report.

## Q.4 Answer the following questions. (Any Two)

- **a)** Explain External Audit.
- **b)** Explain Statutory Audit Report.
- c) Explain concept of Vouching & Explain Its need and importance.

## Q.5 Answer the following questions. (Any One)

**a)** From the following information prepare statement showing changes in working capital.

Abe company Ltd.							
Current Liability	2018	2019	Current Assets	2018	2019		
	Rs.	Rs.		Rs.	Rs.		
			Cash & Bank				
Creditors	50000	45000	Balance	150000	122000		
Bills Payable	46000	72000	Debtors	150000	172000		
O/S Exp. For							
Labour	89000	79000	Stock	105000	92000		

## ABC Company Ltd.

- **b)** From the following particulars of Anil & Co. prepare a bank reconciliation statement as On August 31, 2017.
  - 1) Balance as per the cash book 54,000.
  - 2) 100 bank incidental charges debited to Anil & Co. account, which is not recorded in cash book.
  - 3) Cheques for 5,400 is deposited in the bank but not yet collected by the bank.
  - 4) A cheque for 20,000 are issued by Anil & Co. not presented for payment.

80

08

Seat No.	t	Set	Ρ
	S.Sc.	. (Entrepreneurship) (Semester - III) (New) (CBSC) Examination	
_		Oct/Nov 2022	-
		Industrial Chemistry (Paper – V) Analytical & Industrial Aspects of Inorganic Chemistry	
Day a	& Dat	ite: Thursday, 23-02-2023 Max. Marks	: 40
Time	: 09:0	00 AM To 11:00 AM	
Instr	uctio	<ul><li>2) All questions are compulsory.</li><li>2) Draw neat diagrams and give equations wherever necessary.</li></ul>	
		<ol><li>Figures to the right indicate full marks.</li></ol>	
		4) Use of logarithmic tables and calculator is allowed.	
Q.1	Mult 1)	Itiple choice questions. The range of methyl orange as an indicator is in between pH	08
	•)	a) 6-8 b) 3-5	
		c) 8-9 d) 2-4	
	2)	When a catalyst used in reaction, which of the following changes? a) Heat of reaction b) Product of reaction	
		c) Activation energy d) Equilibrium constant	
	3)	Corrosion between the dissimilar metals is called as	
		<ul> <li>a) Galvanic corrosion</li> <li>b) Dry corrosion</li> <li>c) Oxidation corrosion</li> <li>d) Concentration cell corrosion</li> </ul>	
	4)	EDTA has the ability to form with metal ions.	
	-,	a) Salts b) Acids	
	<b>E</b> \	c) Stable complexes d) Unstable complexes	
	5)	To deliver a fixed accurate volume of solution, use a a) Pipette b) Burette	
		c) Beaker d) Dropper	
	6)	Catalyst used in the Haber's process for the manufacturing of Ammonia from $N_2$ and $H_2$ is	
		a) Nicke b) Iron	
		c) Palladium d) Cobalt	
	7)	The rusting of iron comes under a) oxidation corrosion b) liquid metal corrosion	
		c) wet corrosion d) corrosion by gases	
	8)	is suitable indicator for the titration of strong acid and weak alkali.	
		a) EDTA b) Litmus blue c) Phenolphthalein d) Methyl orange	
Q.2	۸ne	swer the following: (Any Four)	08
Q.Z	a)	How is the nitrogen obtained for Haber's process?	00
	b)	Define	
		i) Titrant ii) Titrand	
	c)	Enlist the factors affecting on corrosion.	
	d) e)	Define the heavy chemicals with suitable example. Define the term Coprecipitation and Post precipitation.	
	с) f)	What is passivity in corrosion?	

e) f) What is passivity in corrosion? SLR-FX-30

# Q.3 Write short note (Any Two)

- a) Describe in detail the Ostwald's theory.
- **b)** Explain the process of precipitation.
- c) Discuss the characteristics of catalytic reactions.

# Q.4 Answer the following questions. (Any Two)

- a) Define the catalysis and explain the industrial applications of catalysis.
- **b)** Write note on electrochemical theory of corrosion.
- c) Discuss the neutralization curve and choice of indicator for strong acid and weak base.

# Q.5 Answer the following questions. (Any One)

- a) Explain in detail physicochemical principle & manufacturing of Sodium carbonate by Solvay process.
- **b)** Describe in detail the role of organic precipitants in gravimetric analysis with respect to DMG and 8-hydroxy quinoline.

# 08

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Sea No.	t				Set	Ρ
	В.S	Sc. (Entrepreneurship) (Semester - I	II) (	(New) (CBCS) Exa	mination:	
		Oct/Nov - 20	022			
		INDUSTRIAL CHEMIST			<b>.</b> .	
Dav	8 Doi	Analytical & Industrial Aspects	0	Organic Chemistr	r <b>y</b> Max. Marks	. 40
		te: Friday, 24-02-2023 00 AM To 11:00 AM			IVIAX. IVIAIKS	. 40
Instr	uctio	<ul> <li>ans: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give equ</li> <li>3) Figures to the right indicate full matrix</li> <li>4) Use of logarithmic tables and calc</li> </ul>	arks	6.	ary.	
Q.1	Mul	tiple choice questions.				08
	1)	Chemical used to control weeds are ca				
		,	) 1)	Herbicides Hormones		
	2)	The byproduct of sugar industry ethance	,			
	2)	,	))	bagasse	÷	
			í)	sugar		
	3)	The surfactants containing anionic and	cat	ionic group are know	n as	
		surfactants. a) ampholytic	<b>)</b> )	Cationic		
		, , ,	)) (t	non – ionic		
	4)	CNS drug prepared from condensation	,	benzylcyanide and		
	,		))	diethyl carbonate		
			1)	4-isotonic acid		
	5)	a) H <sub>2</sub> O <sub>2</sub> is a universal bleaching agent.		NaOCI		
			)) (1	H <sub>2</sub> O		
	6)	,	fibe			
	,		))	vegetable		
			1)	natural		
	7)	Among the following which are most im	-	-	ents?	
		, -	) 1)	Aliphatic sulphates Amide sulphonates		
	8)	Number of chiral carbons in the structu	,	•		
	0)		)))	1		
		c) 2 c	l)	3		
Q.2	∆ne	wer the following: (Any Four)				08
	a)	Define absolute alcohol and power alco	hol			
	b)	Write the raw material used in soap ind				
	c)	What are the qualities of ideal drugs?	roll	mill		
	d)	Draw the neat labeled diagram of three				

- Mention the classification of agrochemicals. Write any two uses of indol -3- acetic acid. e)
- f)

# Q.3 Write short note (Any Two)

- a) Clarification of juice
- **b)** CNS drug
- c) Agrochemicals
- d) Classification of fiber

# Q.4 Answer the following questions. (Any Two)

- a) Write the synthesis and uses of isonizide.
- **b**) Explain the pesticides with classification.
- c) Discuss the byproducts of sugar industry.

# Q.5 Answer the following questions. (Any One)

- a) What is the sizing process? Discuss different ingredients and their function for sizing.
- **b)** What are the soaps? Discuss the manufacturing of soap by hot process.

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# 08

d)	Maize	
all observations in a so b) d)	et of data is known as Mean Mode	
he following.		08
iversion		
		Page <b>1</b> of <b>2</b>

Seat No.

# B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: **Oct/Nov-2022** MICROBIAL BIOTECHNOLOGY (Paper – V) Genetics

Day & Date: Saturday, 25-02-2023 Time: 09:00 AM To 11:00 AM

Q.1

1)

2)



a)	eignt	D)	seven
C)	six	d)	Five

- A human cell contains total \_\_\_\_\_ pair of chromosomes. 3)
  - a) 23 b) 46 c) 22 d) 44
- 4) In chromosomal aberration, if parts of chromosome lost or deleted is
  - known as
  - a) translocation b) Inversion
  - C) duplication d) deletion
- Bacteriophage mediated gene transfer method is known as 5)
  - replication b) transformation a)
  - transduction d) conjugation C)

Complete linkage has been reported in 6)

- a) b) Human female Maize
- C) Male Drosophila d) Female Drosophila
- 7) Transposons were first discovered in
  - b) Bacteria a) Rice
  - C) Mice

8) The average of

- a) Median
- c) Range
- Q.2 Define any four of th
  - Trait a)
  - b) Chromosomal inv
  - C) Exogenote
  - d) Mode
  - e) Mutation
  - f) Epistasis

SLR-FX-32

Set

Max. Marks: 40

08

Q.3	<ul> <li>Write short notes on any two of the following:</li> <li>a) Law of independent assortment.</li> <li>b) Types of chromosomes.</li> <li>c) Conjugation.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Describe the types of linkages.</li> <li>b) Explain in brief induced nutation.</li> <li>c) Write in brief mean.</li> </ul>	08
Q.5	<ul> <li>Answer any one of the following.</li> <li>a) Explain in detail on transduction.</li> <li>b) Write in detail on crossing over.</li> </ul>	08

# Seat No.

# B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: **Oct/Nov-2022 MICROBIAL BIOTECHNOLOGY (Paper – VI)**

**Fermentation Technology** 

Day & Date: Monday, 27-02-2023 Time: 09:00 AM To 11:00 AM

Instructions: 1) All questions are compulsory.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of log table and calculators is allowed.

#### Q.1 Multiple choice questions.

- material is used as a bioplastic. 1)
  - PHB a)
    - PVC C)
- In penicillin G production \_\_\_\_\_ precursor is used during production. 2)
  - Methoxy acetic acid b) Acetic acid a)
  - Phenyl acetic acid d) Lactic acid C)
- 3) Extraction and purification of ethanol is mainly carried out by using technique.
  - Precipitation a)
  - b) Distillation
  - C) Drying
  - Solvent extraction d)
- Ales are the beer in which fermentation is carried out by using \_\_\_\_\_. 4)
  - Top yeast b) Bottom yeast a)
  - C) Middle veast d) All of these
- 5) Commercial production of citric acid is carried by \_\_\_\_\_.
  - Rhizopus a)
  - Candida albicans b)
  - C) Apergillus niger
  - d) Fusarium
- 6) The root nodules of legumes contain a pink coloured pigment which have more affinity to oxygen is called as
  - Haemoglobin b) Leghaemoglobin a)
  - nod haemoglobin d) Bilirubin C)
- 7) The parasporal body of single large crystal of toxin secreted by spores of Bacillus *thuringiensis* called as
  - a)  $\alpha$  exotoxin b)  $\beta$  exotoxin
  - $\nu$  exotoxin d)  $\delta$  endotoxin C)
- is produced with the help of methanogenic bacteria by anaerobic 8) digestion.
  - Ethanol Biogas a) b)
  - C) Biodiesel d) Butanol

Max. Marks: 40

SLR-FX-33



- d) Polystyrene

		S	LR-FX-33
Q.2	Ans a) b) c) d) e) f)	wer any Four of the following: Define antibiotics. Define bio fertilizer. Define bioplastic. Enlist applications of citric acid. What is SCP? Enlist types of wine.	08
Q.3	Writ a) b) c)	<b>te short notes on any two of the following:</b> Discuss in brief production of Amylase enzyme. Discuss in brief lager beer production. Discuss in brief citric acid production.	08
Q.4	Ans a) b) c)	wer any Two of the following. Describe in brief SCP production. Discuss in short production of red wine. Describe in detail <i>Rhizobium</i> as bio fertilizer.	08
Q.5	Ans a) b)	wer any one of the following. Explain in detail Micro-organisms involved, media & product recove Penicillin. Discuss in detail biogas production.	<b>08</b> ery of

I	B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: Oct/Nov - 2022					
		ENTREPRENEURSHIP (PAPER – VII) Corporate Accounting & Professional Ethics				
		e: Tuesday, 21-02-2023 Max. Marks: 40 0 PM To 02:00 PM				
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Draw neat labeled diagrams wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> <li>4) Use of log table and calculators is allowed.</li> </ul>				
Q.1	<b>Cho</b> 1)	ose the correct alternatives from the options.08 is the capital mentioned in the Memorandum of Association.08a) Subscribed share capitalb) Paid up share capitalc) Authorized share capitald) Issued capital				
	2)	The document inviting offers from public to subscribe its share is calleda) Share certificateb) Table Ac) Prospectusd) None of the above				
	3)	If share are issued at their face value, it is called as issued at a) Premium b) Par c) Discount d) Market				
	4)	The amount set apart from profit for future is known as a) Provision b) Reserve c) Capital A/c d) Cash in hand				
	5)	<ul> <li>Liquidation without intervention of the court is known as</li> <li>a) Compulsory winding up</li> <li>b) Compulsory liquidation</li> <li>c) Winding up by order of court</li> <li>d) Voluntary liquidation</li> </ul>				
	6)	<ul> <li>Provision of taxation is shown in</li> <li>a) Asset side of the balance sheet</li> <li>b) Liability side of the balance sheet</li> <li>c) Credit side of the P &amp; L A/c</li> <li>d) Debit side of the trading A/c</li> </ul>				
	7)	Ethics is related toa) The wider communityb) Businessc) Right and wrongd) Nothing				
	8)	<ul> <li>Which of the following dose the term Corporate Social Responsibility relate to?</li> <li>a) Ethical conduct</li> <li>b) Environmental practice</li> <li>c) Community investment</li> <li>d) All of the above</li> </ul>				

# Seat

No.

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Q.2 Answer the following questions. (Any Four)

- 1) Define forfeiture of shares.
- 2) Define interim dividend.
- 3) Define code of conduct.
- 4) Who is a liquidator?
- 5) What is business ethics?
- 6) Corporate governance

## Q.3 Write short note on any two of the following.

- 1) Explain ethics in areas of marketing and HRM.
- 2) Explain Corporate Social Responsibility in detail.
- 3) What are the functions of Liquidators?

## Q.4 Answer any two of the following.

- 1) Explain modes of company liquidation.
- 2) Explain importance of business ethics.
- 3) The following is the Balance Sheet of Asian India Ltd. as on 31.12.2017

Liabilities	Rs.	Assets	Rs.
Share Capital		Land & building	55,000
10,000 shares of Rs. 10 each	1,00,000	Plant	65,000
General Reserve	20,000	Trademark	10,000
Taxation Reserve	30,000	Stock	24,000
Workmen's savings A/c	15,000	Debtors	44,000
Profit & Loss A/c	16,000	Cash at Bank	26,000
Sundry Creditors	49,000	Preliminary Expenses	6,000
	2,30,000		2,30,000

The Plant is worth Rs. 60,000 and Land and Building have been valued at Rs. 1,20,000. Debtors include Rs. 4.000 as bad. Value of Goodwill is Rs. 80,000. Ignore Income-tax.

Find out the Fair Value of the Equity Share.

### Q.5 Answer any ONE of the following.

- a) What is liquidation? Explain Liquidators final statement of account and order of payment.
- b) Anjana Industries Ltd. issued 2,000 equity shares of Rs. 100 each at premium of Rs. 5 per share payable as follows: On application Rs. 35 per share (including premium) On allotment Rs. 25 per share
   On First Call Rs. 20 per share

On First Call Rs. 30 per share

On Final Call Rs. 15 per share

Applications were received for 2,200 equity shares. 2,000 equity shares were allotted to the applicants. The remaining applications for 200 equity shares were rejected and the application money thereon refunded.

Pass the necessary journal entries.

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Seat	t	Set	Ρ			
B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: Oct/Nov-2022 Entrepreneurship (Paper-VIII)						
		International Marketing & Marketing Decision				
		te: Wednesday, 22-02-2023 Max. Marks 00 PM To 02:00 PM	3: 40			
Instr	uctio	<ul> <li>ans: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat and labeled diagram wherever necessary.</li> </ul>				
Q.1	Mult	tiple choice questions.	08			
	1)	The life cycle of a product includes a) Extraction of natural Resources b) Processing of raw Material c) Manufacturing Product d) All of the above				
	2)	The Chemical properties a good product material area) Oxidationb) Corrosionc) Surface Treatmentd) All of above				
	3)	Extension of marking activities across the globe is called as a) Internal Business b) Universal Marketing c) International Marketing d) Borderless Market				
	4)	The consumer promotion technique according to which seller sells two or three units of product at reduced price is classified as a) Price Packets b) Cents of deals c) Advertising specializations d) Both a & b				
	5)	Consumer Day is celebrated to a) 15 March b) 16 March c) 20 March d) 25 March				
	6)	A consumer can collect information from a) Internal Source b) External Source c) Digital Resource d) All of the above				
	7)	The Company's Strength and Weakness are evaluated ina) Pest Analysisb) SWOT Analysisc) Both a & bd) None of the above				
	8)	Brand elements is also known as a) Awareness b) Recall c) Identity d) Image				
Q.2	Ans a) b) c) d)	wer Any Four of the following: Write down Meaning of Product Planning? Define Brand What is Consumer Behavior What is Global Marketing	08			

- d) What is Global Marketing
  e) Write down meaning of Super Market?
  f) Define E-Commerce

			SLR-FX-35
Q.3	a) b)	<b>e short notes on any Two of the following.</b> Types of Product Concept of Internet Banking Strategy in Competitive Market	08
Q.4	a) b)	<b>wer any two of the following.</b> What is Product Idea? Explain the its process? Explain the use of Website Marketing? Explain the Model of behavior	08
Q.5	a)	wer any One of the following. What is Whole Seller? Explain the types & Function? Explain the Global Brand and Multinational Company	08

Seat	t	Set P			
B.Sc. (Entrepreneurship) (Semester – IV) (New) (CBCS) Examination: Oct/Nov - 2022 Industrial Chemistry (Paper – VII) Analytical & Industrial Aspects of Physical Chemistry					
	Day & Date: Thursday, 23-02-2023 Max. Marks: 40 Time: 12:00 PM To 02:00 PM				
<ul> <li>Instructions: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give equations wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> </ul>					
Q.1	1)	tiple choice questions08To determine the cell constant is electrolyte is used.08a) NaClb) K2SO4c) KCld) Na2SO4			
	2)	In premix burner only% of sample is used. a) 50 b) 5 c) 100 d) 0			
	3)	When the flame temperature decrease, the intensity of the emitted radiation a) decreases b) remains constant c) Increases d) none of these			
	4)	During the conductance measurement current is used. a) AC b) DC c) both of these d) None of these			
	5)	Opacity is defined as reciprocal of a) Absorbance b) Transmittance c) Reflectance d) none of these			
	6)	In potentiometric titrations Quinhydrone electrode is used as electrode. a) Indicator b) Standard c) Reference d) all of these			
	7)	The photocurrent in photoelectric colorimeter is measured by a) Voltmeter b) Ammeter c) Galvanometer d) all of these			
	8)	The burner in which all samples enter the flame is called as burner.a) Meckersb) total consumptionc) Premixd) Lundegraph			
Q.2	<b>Ans</b> 1) 2) 3) 4)	Swer any four of the following:08Give the principle of Wheatstone bridge circuit.State Lambert-Beer law.Define equivalent electrolyte. Give its unit.Represent glass electrode.			

A) Represent glass electrode.
 5) How the conductivity water is prepared?
 6) What do you mean by buffer solution? Mention different types of it.

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

- 1) Basic circuit of direct reading potentiometer.
- 2) Wheatstone bridge circuit and its principle.
- 3) Applications of Beer-Lambert's law.

# Q.4 Answer any two of the follow ing:

- 1) Explain how you would determine the pH of a solution using glass electrode.
- 2) Mention various methods of color comparison and describe the photoelectric photometer.
- 3) What are the applications of flame photometry in qualitative and quantitative analysis?

# Q.5 Answer any one of the following:

- 1) Mention different types of conductometric titrations. Explain conductometric titration between weak acid and weak base.
- 2) Discuss instrumentation of flame photometry.

08

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Page 2 of 2
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Seat No.	t			Set P
В	S.Sc.		emester - IV) (New) (CBCS) Exa Oct/Nov-2022 Chemistry (Paper – VIII)	mination:
			ects of Applied Chemistry	
		e: Friday, 24-02-2023 0 PM To 02:00 PM		Max. Marks: 40
Instr	uctio	ns: 1) All questions are com		
		<ol> <li>2) Figures to the right in</li> <li>3) Draw neat and labele</li> </ol>	dicate full marks. d diagram wherever necessary.	
Q.1	Cho	ose the correct alternative	s from the options.	08
	1)		ing the optimum pH range is	
		a) 5-6 c) 4-5	b) 3-4 d) 2-3	
	2)	Triple super phosphate co	7	
	,	a) $N_2O_5$	b) $P_2O_5$	
		c) $K_20$	d) NO <sub>2</sub>	
	3)	The upper part of blast fur		
		a) body c) throat	b) base d) tank	
	4)	$C_u SO_4$ . 2H <sub>2</sub> O is added to	the rate of setting of cement.	
		a) increase	b) make normal	
	<b>C</b> \	c) extremely high	d) slow down	
	5)	a) washing	ticle in acid is known as b) coating	
		c) removal of coating	d) picking	
	6)	Urea has highest percenta		
		a) K c) N	b) P d) S	
	7)	,	e removed by cutting, grinding and pc	lishina
	•,	these process is called as		
		a) shaping	b) finishing d) Annealing	
	8)	c) fusion	, 6	h are called
	8)	n, P, K consumed in large nutrients.	quantities by the plants for their growt	
		a) primary	b) secondary	
		c) tertiary	d) micro	
Q.2		wer Any Four of the follow	-	08
	a) b)	Write basic principle of elec Write 2 properties of ceram		
	c)	What do you mean by direc		
	d)	Define calcinations and roa	sting.	

- beine calcinations and roasting.
  e) Give 2 applications of anodizing.
  f) State 1<sup>st</sup> law of faraday.

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Q.3	Writ a) b) c)	<b>e short notes on any Two of the following.</b> Pollution caused by fertilizer Raw materials used in preparation of glass Anodising	08
Q.4	Ans a) b) c)	<b>wer any two of the following.</b> Write qualities of Ideal fertilizers. Define flux, slug and give two physical properties of glass. Explain froth floatation process.	08
Q.5	Ans a) b)	<b>wer any One of the following.</b> Describe in details types of glass. Explain manufacture of steel by L.D. Process.	08

wolecular biology							
	Day & Date: Saturday, 25-02-2023 Max. Marks: 40 Time: 12:00 PM To 02:00 PM						
Instr	Instructions:1) All questions are compulsory. 2) Figures to the right indicate full marks.						
Q.1	1)	te the following sentences by choosing the correct alternative:       08         Fermination of replication is triggered by       08         a) SSB       b) Tus protein         c) DNA polymerase       d) Helicase					
	2)	<ul> <li>ac operon is an example of</li> <li>a) only positive regulation</li> <li>b) only negative regulation</li> <li>c) both positive and negative regulation</li> <li>d) sometimes positive sometimes negative</li> </ul>					
	3)	RNA polymerase can bind CBP. a) I b) II c) III d) Iv					
	4)	The mechanisms will remove uracil and incorporate the correct base. a) Direct repair b) Mismatch repair c) Nucleotide excision repair d) Base excision repair					
	<ul> <li>5) enzymes separate the two strands of DNA during replication.</li> <li>a) Helicase</li> <li>b) DNA polymerase</li> <li>c) Gyrase</li> <li>d) Topoisomerase</li> </ul>						
	6)	Codons which do not code for amino acids are a) 3 b) 9 c) 5 d) 11					
	7)	The type of coiling in DNA is a) Right-handed b) Zig-zag c) Left-handed d) Opposite					
	8)	The significance of codons was elaborated by a) James Watson b) George Gamow c) Thomas Morgan d) H. J. Muller					
Q.2		er Any four of the following: 08	'				

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#### SLR-FX-38

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- 2)
- 3)

B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: Oct/Nov-2022 **MICROBIAL BIOTECHNOLOGY (Paper-VII) Molecular Biology** 

- 5)
- 6)
- 7)
- 8)

#### Q.2 Ans

- a) Transcription
- Operon concept b)
- SOS repair C)
- DNA Polymerases d)
- Salient features of double helix e)
- The Central Dogma f)

Q.3	Writ a) b) c)	te short notes on any two of the following: Define and explain structure of DNA. Write a note on Post transcriptional modification of RNA. Add a detailed note on nucleotide Excision repair in prokaryotes.	08
Q.4	Ans a) b) c)	wer any two of the following: Write n note on DNA replication. Add a detailed note on Types of DNA. Define and explain RNA Polymerases and its types.	08
Q.5	Ans a) b)	wer any One of the following: Define Transcription and explain transcription in Eukaryotic Cell. Write a detailed note on Regulation of Lac Operon.	08

		SLR-FX-39	•
Seat No.	t	Set P	•
В	.Sc.	Entrepreneurship) (Semester – IV) (New) (CBCS) Examination: Oct/Nov-2022	
		MICROBIAL BIOTECHNOLOGY (Paper – VIII)	
Day	8. Data	Food & Dairy Technology e: Monday, 27-02-2023 Max. Marks: 40	า
		0 PM To 02:00 PM	,
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Draw neat labeled diagrams wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> </ul>	
Q.1		ose the correct alternative and rewrite the sentences again. 08	8
	1)	Legal butter must contain at least % of fat. a) 70	
		c) 90 d) 100	
	2)	Example of soft cheese is	
		a) Cheddar b) Swiss c) Brick d) Cottage	
	3)	Anaerobic souring in meat is a result of	
		<ul><li>a) enzyme action</li><li>b) proteolysis</li></ul>	
		c) production of lactic and fatty acids	
	•	d) all of these	
	4)	is regarded as the father of canning. a) John Hall b) Nicolas Appert	
		c) Louis Pasteur d) Bryan Dokin	
	5)	Sun drying food preservation method is most suitable for	
		a) grains b) vegetables c) meat d) fruits	
	6)	Heating of milk at 135°C for 1-2 seconds is followed in pasteurization	
		a) HTAT b) LTH c) UHT d) HTST	
	7)	Efficiency of pasteurization is determined by	
	•,	a) MBRT test b) MPN test	
		c) Phosphatase test d) Resazurin test	
	8)	is not the extrinsic parameter in the food responsible for microbial growth.	
		a) Temperature of storage	
		<ul><li>b) pH</li><li>c) Presence of gases in environment</li></ul>	

d) Relative humidity of environment

#### **SLR-FX-39** Define any four of the following. 08 Dairy Contamination Spoilage Poisoning Preservation 80 Write short notes on any two of the following.

#### Dye reduction test 1)

- 2) Methods of Food preservation
- 3) Pasteurization

Milk

Q.2

Q.3

1) 2)

3)

4)

5)

6)

#### Q.4 Answer any two of the following.

- 1) Describe the composition, classification, defect and uses of Butter.
- 2) Explain the microbial spoilage of fruits and vegetables.
- 3) Explain Chemical and Physical properties of food affecting microbial growth (intrinsic and extrinsic factors).

#### Q.5 Answer any one of the following.

- 1) Describe in detail Homogenized milk, flavored milk and Tanned milk.
- 2) Explain in detail composition and types, manufacturer & uses of Cheese.

80

ENGLISH **Business English** Max. Marks: 40 b) to be a ring leader d) to become a teacher

## SLR-FX-40

Seat No.

## B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: Oct/Nov-2022

Day & Date: Friday, 27-01-2023 Time: 03:00 PM To 05:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

#### Choose the correct alternative from the given option. Q.1

- 1) What was Della's fear with her new haircut?
  - a) Jim wouldn't love her anymore
  - b) made her look like a nun
  - c) made her look ugly
  - d) She would look less fashionable

#### 2) What was Phatik's deepest desire in the story 'The Home Coming'?

- a) to belong and be loved
- c) to be a boats man
- 3) What makes the maidens song extraordinary?
  - a) it's musicality b) it's eternal nature
  - c) it's theme d) her voice

#### 4) What does Queen Gulnar desire in the poem?

- a) the Kings alteration c) a rival
- b) more jewellary d) more clothes
- 5) What did the school master love above all?
  - a) discipline b) learning
  - c) debate d) sports
- 6) The hunter killed the tiger. (change into passive voice)
  - a) The tiger was killed by the hunter
  - b) The tiger was killed by someone
  - c) The hunter killed some tigers
  - d) The tiger killed the hunter

#### 7) Her grandfather after a long illness.

- a) passed out b) passed away
- c) passes by d) passed by
- 8) She among all her classmates because of her intelligence and smartness.
  - a) stands away
  - c) stands out

- b) stand above
- d) stand by

Q.2 Answer any four of the following Questions.

- a) What did the couple in the story 'The Gift of Magi' decide to gift each other?
- b) Why did Phatik feel suffocated in the big city?
- c) What trouble did the poet have with the song in the poem 'The solitary reaper'?
- d) Why is the Queen unsatisfied in the poem 'The Queens Rival'?
- e) What is the significance of the two roads in the poem 'The Road Not Taken'?
- f) Describe the character of the village school master.

#### Q.3 Answer the following question. (Any one)

- a) You are the student Secretary of Cultural department, a differences arouse among the students of Group dance ones a minor issue of dance steps. What step will you initiate to resolve the issue and ensure that harmony prevails.
- **b)** What are the 21<sup>st</sup> Century Skills? Explain them in details.
- Q.4 As a native of Solapur, how will you solve the problem of deforestation (cutting down the trees) due to the construction of the National and State Highways.

12

Seat No. Oct/Nov-2022 **BUSINESS FINANCE** Day & Date: Saturday, 28-01-2023 Time: 03:00 PM To 06:00 PM

Instructions: 1) All questions are compulsory.

- 2) Figures to the right indicate full marks.
- 3) Draw neat diagrams and give equations wherever necessary.

b)

b)

#### Q.1 Multiple choice questions.

- is market where new securities are bought and sold for the first 1) time.
  - Money market a)
  - Secondary Market Primary market C) d)

stock have priority of claim on assets. 2) Preference

- a) Equity
- Debenture Common C) d)
- 3) is the process of making investment decision in capital expenditure.
  - Dividend decision a)
  - Managerial accounting C)
- 4) Finance function comprises
  - Safe custody of funds only a)
  - Procurement of finance only C)
- Internal sources of finance include 5)
  - Public Deposits a)
  - Bank Loan C) d)
- 6) is not a method of issuing ordinary shares.
  - a) Public Placement
  - Sale through intermediaries C)
- 7) is contracture agreement between the owner of the assets and user of the assets for a specific period by a periodical rent.
  - Venture capital a)
  - C) Factoring d) Underwriting
- is regarded as the life blood of business. 8) b) Finance
  - Marketing a)
  - Human Resource C)
- 9) E-banking is also known as
  - Virtual Banking a) Online Banking C)
- b) Internet Banking

Management

d) All the above

- d)
- b) Expenditure of funds only
- d) Procurement & effective use of funds

- Cost accounting

b) Capital budgeting

Capital Market

b) Private Placement

d) Auction

b) Lease

d)

- - b) **Retained earnings**
- Debenture

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

Max. Marks: 80

	10)	funds are required by business firms for purpose of acquire fixed				
		assets. a) Long term b) Short term c) Medium term d) All the above				
	B)	Answer in one sentence / Fill in the blanks.         1)       Full form of ADR         2)       Full form of GDR         3)       Full form of SEBI         4)       Full form of BSE         5)       Full form of NSE         6)       Full form of FEMA	06			
Q.2	Ans 1) 2) 3) 4) 5) 6) 7) 8) 9) 10)	wer the followings (Any Eight): Equity shares Preference shares Public deposit Working capital Lease finance E-banking E-Trading Commercial Banks Reserve bank of India ADR & GDR	16			
Q.3	A)	<ul> <li>Answer the followings (Any Two):</li> <li>1) Explain Venture Capital in India.</li> <li>2) Explain Recent Development in Commercial Banks.</li> <li>3) Explain Methods of Capital Budgeting in Details.</li> </ul>	10			
	B)	Write Short note on Cross listing of Equities	06			
Q.4	A)	<ul> <li>Answer the followings (Any Two):</li> <li>1) Explain Right Issue in details.</li> <li>2) Explain Private Placement in details.</li> <li>3) Explain in brief about Stock market / Exchange.</li> </ul>	08			
	B)	Explain functions of SEBI.	08			
Q.5	Ans a)	<b>wer the following (Any Two).</b> Define financial planning. Explain types of financial plan.	16			

- b)
- Explain in detail Functions and structure of forex market. Define commercial bank? Explain investment policy of commercial banks. C)

Seat No.					Set	Ρ
В	.Sc.	(En		Oct/Nov-202		
			HUMAN R nday, 30-01-2023 To 06:00 PM	ESOURCE M	ANAGEMENT Max. Marks	: 80
Instru	ctior	,	All questions are co Figures to the right i		S.	
Q.1	A)	Mult 1)	iple choice Questio The Human Resour a) Line c) Line & Staff		s a Department. Staff All of these	10
		2)	Human Resource M a) co-related c) direct	lanagement is a b) d)	management function. strategic dynamic	
		3)	Human Resource P a) strategic c) integrated	lanning is a b) d)	continuous	
		4)	Training is a tool to a) efficiency c) effectiveness	b)	performance productivity	
		5)	Straight Ranking me a) motivation c) merit rating	ethod is a metho b) d)	d of performance appraisal training	
		6)	is the reward person in return for a) Salary c) Allowance	• • •	anization to a person or group of Wages Compensation	
		7)	is an act of ir doing a particular jo a) Teaching c) Training	-	owledge & skill of an employee for Development Education	
		8)	Moral is refered to _ a) Motivation c) Willingness	to work. b) d)	Zeal Attitude	
		9)	a) Group discuss c) Special lecture	sion b)	uction Method of training. Role Playing Sensitivity training	
		10)	Formal lecture meth a) on the job c) vestibule	od is a type of _ b) d)	training. apprenticeship classroom	

	b)	Give Definitions:1)HRM2)Selection3)Training4)Promotion5)Performance Appraisal6)External mobility	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve (Any Eight): Job Analysis Job Specification HRM objectives Convenience Allowance What is mean by succession - planning? Concept of Provident - fund Purpose of Performance Appraisal Job satisfaction Internal source of recruitment Transfer benefits	16
Q.3	a)	<ul> <li>Attempt the following (Any Two)</li> <li>1) Define the role of HRM.</li> <li>2) What are the steps in selection procedure?</li> <li>3) Define the problems of Performance Appraisal?</li> </ul>	10
	b)	Short note: What are the Promotion types?	06
Q.4	Ans a)	<ul> <li>a) External sources of Recruitment?</li> <li>a) E.S.I. maintenance Allowance</li> <li>b) Recent trends in selection</li> </ul>	08
	b)	Explain What is mean by training? Give its need & objectives?	08
Q.5	Atte a) b)	empt the following (Any Two) What is mean by Performance Appraisal? Give its methods. Functions & importance of HRM	16

b) Functions & importance of HRMc) Elements of careers development programme.

Seat			
No.			Set P
В	B.Sc	. (En	trepreneurship) (Semester - V) (New) (CBCS) Examination:
			Oct/Nov-2022 SPECTROSCOPIC METHODS
Day &	Date	e: Tue	esday, 31-01-2023 Max. Marks: 80
Time:	03:0	0 PM	To 06:00 PM
Instru	ictio		) All questions are compulsory. ) Figures to the right indicate full marks.
Q.1	A)	Mult	tiple choice Questions. 10
		1)	Mass spectrum is obtained by using
			a) Electron beam b) UV light c) IR light d) Radio waves
		2)	UV spectroscopy is also known as spectroscopy.
		_,	a) vibrational b) rotational
			c) raman d) electronic
		3)	Nuclei with an odd atomic mass and an even or odd atomic number
			have a) zero spin b) integral spin
			c) half-integral spin d) none of these
		4)	The functional group region is in between
		,	a) 4000 – 1350 cm <sup>-1</sup> b) 1350 – 650 cm <sup>-1</sup>
			c) $4000 - 650 \text{ cm}^{-1}$ d) $2000 - 950 \text{ cm}^{-1}$
		5)	Which type of electronic transition required highest energy?
			a) $\sigma \rightarrow \sigma^*$ b) $\prod \rightarrow \prod^*$ c) $n \rightarrow \sigma^*$ d) $n \rightarrow \prod^*$
		6)	Among the following which is a IR active transition?
		0)	a) HCl b) N <sub>2</sub>
			c) CCl <sub>4</sub> d) Cl <sub>2</sub>
		7)	The methylene proton case of impure ethanol gives the spitted peak
			having multiplicity. a) singlet b) doublet
			c) triplet d) quartet
		8)	Mass spectra, is obtained by plottingand on X and Y-axis
			respectively
			<ul> <li>a) charge, abundance</li> <li>b) abundance, charge/mass</li> <li>c) mass, charge on ions</li> <li>d) mass, abundance</li> </ul>
		۵)	
		9)	The intensity of transmitted light to that incident light is known as a) opacity b) absorbance
			c) transmittance d) none of these
		10)	Higher $\delta$ values shows
			a) upfield b) resonance
			c) downfield d) flipping

	b)	<ul> <li>Answer the following.</li> <li>1) Which type of energy is used in mass spectroscopy?</li> <li>2) State Lambert's law.</li> <li>3) What is IR spectrum?</li> <li>4) Define molecular ion.</li> <li>5) Which internal standard used in NMR spectroscopy.</li> <li>6) Write the types of stretching vibrations.</li> </ul>	06
Q.2	a) b) c) d) e)	ve any eight of the following. Write any two application of UV spectroscopy. Explain the term hyperchromic shift. What is mean by delta scale? Define mass spectrum. Write the selection rule for the absorption of radiation in IR spectroscopy	16
	f) g) h) i)	What are the types of the bending vibrations? Mention the different types of ions formed in mass spectroscopy. What is mean by IR active transition and IR inactive transition? What is the basic principle of mass spectroscopy?	
Q.3	a)	<ul> <li>Write short note on any two of the following.</li> <li>1) Lambert-Beer law</li> <li>2) Flipping the spin</li> <li>3) Functional group region</li> </ul>	10
	b)	<ul> <li>How many signals are expected in the NMR spectra of the following compound?</li> <li>1, 2 -dichloropropane</li> <li>2) Vinyl chloride</li> </ul>	06
Q.4	A)	<ul> <li>Answer any two of the following.</li> <li>1) Explain the basic principle of mass spectroscopy.</li> <li>2) Discuss in detail effect conjugation on the position of UV bands.</li> <li>3) Discuss in detail fragmentation ion.</li> </ul>	08
	b)	Discuss in detail the applications of UV spectroscopy.	08
Q.5	a)	<ul> <li>Swer any two of the following.</li> <li>An organic compound having molecular formula C<sub>4</sub>H<sub>8</sub>Br<sub>2</sub> gives</li> <li>following NMR data: <ol> <li>1.9 δ (6H, S)</li> <li>3.87 δ (2H,S)</li> <li>Assign the structure to the compound</li> </ol> </li> </ul>	16
	b) c)	What is mean by $(M + 1)$ and $(M + 2)$ peaks in mass spectroscopy? What is the figure print region in IR spectra? Draw the double beam IR spectrophotometer.	

	GROUP			REQUENCY ANGE cm <sup>-1</sup>	INTENSITY		
A.	Alkyl						
	C - H (stretching)			2853 - 2962	(m – s)		
	Isopropyl - CH(CH <sub>3</sub> )	,		1380 - 1385	(s)		
			and	1365 - 1370	(s)		
	tert - Butyl - C (CH <sub>3</sub> )	-		1385 - 1395	(m)		
	ien - Dulyi - e (eng	3		and - 1365	(5)		
B.	Alkenyl				0.00		
	C-H (stretching)			3010 - 3095	(m)		
	C = C (stretching)			1620 - 1680	(v)		
	$R - CH = CH_2$			985 - 1000	(s)		
			and	d 905 - 920	(s)		
	$R_2 C = CH_2$	(out of plane		880 - 900	(5)		
	$r_2 c = c H_2$ cis – RCH = CHR	C-H bendings)		675 - 730	(5)		
	trans - RCH = CHR	C-H bendings/		960 - 975	(\$)		
	Alkynyl						
	= C - H (stretching)			- 3300	(\$)		
	C = C (stretching)			2100 - 2260	(v)		
).	Aromatic						
	Ar - H (stretching)			- 3030	(v)		
	Aromatic substitution	type					
	(C-H out-of-plane be	ndings)					
	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)		
E.	Alcohols, Phenols, Carboxylic Acids						
	OH (alcohols, phenols			3590 - 3650	(sharp v)		
	OH (alcohols, phenol			3200 - 3550	(broad s)		
	OH (carboxylic acids,			2500 - 3000	(broad v)		
F.	Aldehydes, Ketones, I	Esters and					
	Carboxylic Acids						
	C = O stretch	1720		1630 - 1780	(s)		
	aldehydes - 1720 (St	re 2700 - 2900		1690 - 1740	(s)		
	ketones			1680 - 1750	(s)		
	esters			1735 - 1750	(s)		
	carboxylic acids			1710 - 1780	(s)		
	amides			1630 - 1690	(\$)		
G.	Amines						
4	N – H			3300 - 3500	(m)		
H.	Nitriles						
	C=N			2220 - 2260	(m)		

TABLE - 1

		BLE - 2				
Approximate	Proton	Chemical	Shifts	in	NMR	

TYPE OF PROTON	CHEMICAL SH	HIFT, DELTA, PPM (δ)
1° Alkyl, RCH <sub>3</sub> 2° Alkyl, RCH <sub>2</sub> R 3° Alkyl, RCH <sub>2</sub> R Allylic, $R_2C = C - CH_3$	0.8 - 1.0 1.2 - 1.4 1.4 - 1.7 1.6 - 1.9	O Ester R = C = O = $CH_2 = R 4 \text{ to } 4.5$ N = $CH_3$ 2.3
R		
Benzylic, ArCH <sub>3</sub>	2.2 - 2.5	
Alkyl chloride, RCH2Cl	3.6 - 3.8	
Alkyl bromide, RCH2Br	3.4 - 3.6	
Alkyl iodide, RCH <sub>2</sub> l	3.1 - 3.3	
Ether, ROCH <sub>2</sub> R	3.3 - 3.9	
Alcohol, HOCH <sub>2</sub> R	3.3 - 4.0	
Ketone, RCCH <sub>3</sub>	2.1 - 2.6	
Aldehyde, RCH	9.5 - 9.6	
Vinylic, $R_2C = CH_2$	4.6 - 5.0	
Vinylic $R_2C = CH$	5.2 - 5.7	
Aromatic, ArH	6.0 - 9.5	
Acetylenic, $RC \equiv CH$	2.5 - 3.1	
Alcohol hydroxyl, ROH	$0.5 - 6.0^{a}$	
Carboxylic, RCOH	10 - 1.3 <sup>a</sup>	
Phenolic, ArOH	$4.5 - 7.7^{a}$	
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 <sub>max</sub> (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 (ąlkoxy)	6
	c) - Cl, -Br	5
	d) - OCOR (acyloxy)	0
	e) - NR <sub>2</sub> , (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

No.	Basic value	λ <sub>max</sub> (nm)
1)	Ketones: $-\overset{\beta}{\underset{l}{C}} = \overset{\alpha}{\underset{l}{C}} - CO -$	
-	a) Acyclic or 6 - membered ring	215
	b) 5 – membered ring	202
2)	Aldehydes $ -C = C - CHO $	207
3)	Extended Conjugation	30
8	$- \overset{\delta}{\overset{\Gamma}{\overset{\Gamma}{\overset{\Gamma}{\overset{\Gamma}{\overset{\Gamma}{\overset{\Gamma}{\overset{\Gamma}{$	
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	

B) Rules for  $\alpha$ ,  $\beta$  – Unsaturated Enones (Ethanol Solution)

c	ubstituents	Position				
		α	β	Y	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)	1	85	-,	-	
e)	- Cl-(chloro)	15	12		-	
1)	- Br (bromo)	25	30	-	-	
g)	- OCOR (acyloxy)	6	6	-	6	
h)	- NH2, - NHR, - NR2	-	95	-	-	

### Solvent correction

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

Seat	
No.	

B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: Oct/Nov-2022

ADVANCES IN FERMENTATION TECHNOLOGY

Day & Date: Wednesday, 01-02-2023 Time: 03:00 PM To 06:00 PM

**Instructions:** 1) All questions are compulsory.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) Figures to right indicate full marks.
- 4) Use of log table and calculators is allowed.

#### Q.1 Multiple choice questions. **A**)

is a polycyclic antibacterial peptide produced by the bacterium 1) Lactococcus lactis that is used as a food preservative.

d)

Cheese

Nisin

- a) Pancreas b)
- c) Antibiotic
- GLP stands for . 2)
  - a) Good manufacturing practices
  - b) Good laboratory practices
  - c) Quality control
  - d) All of these
- is used for production of xanthan gum. 3)
  - a) Yeast species b) E. Coli Xanthomonas compestris
  - c) *Pseudomonas* d)
- Agaricus bisporus is an example of type of mushroom. 4)
  - a) Right Button b)
  - c) Class Straight d)
- a system of maintaining standards in manufactured products 5) by testing a sample of the output against the specification. a) Quality control

d)

b) Quality assurance

None

- c) Quality management
- is an antiviral substance produced by host cell after viral 6) infection.
  - b) Interferon a) Insulin
  - c) DNA d) RNA
- Acetone Butanol is mainly produced by using organism. 7)
  - a) *B. subtilis*
  - b) Pseudomonas Putida
  - c) Clostridium acetobutylicum
  - d) E. coli
- 8) A symbol, word, or words legally registered or established by use as representing a company or product is
  - Trademark a) Copyright b)
  - c) Patent d) Secret

Max. Marks: 80

		<ul> <li>9) Insulin is secreted by</li> <li>a) Pancreas</li> <li>b) Heart</li> <li>c) Spleen</li> <li>d) Stomach</li> </ul>	
		<ul> <li>10) production is an example of dual step proce</li> <li>a) Amylase</li> <li>b) Xanthan</li> <li>c) Ethanol</li> <li>d) Vinegar</li> </ul>	ess.
	B)	<ul> <li>Answer the following.</li> <li>1) Define Biosafety.</li> <li>2) Define Copyright.</li> <li>3) Define IPR.</li> <li>4) Define Toxoid.</li> <li>5) Types of interferon.</li> <li>6) Define quality assurance.</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following. What is PHB? What is pyrogen? What is attenuated vaccine? Enlist application of bacteriocin. What is international code? What is TRIPS? Define bioethics. What is significance of sterility testing? Enlist applications of glycerol. Enlist the names of rubber producing microorganisms.	16
Q.3	A)	<ol> <li>Attempt any Two of the following.</li> <li>1) Explain in detail production of Xanthan gum.</li> <li>2) Describe in detail production of peptide vaccine.</li> <li>3) Discuss in brief test for carcinogenicity.</li> </ol>	10
	B)	Short note/Solve Write detail account on mushroom cultivation.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Write in detail insulin production.</li> <li>2) Explain in detail IPR and its types.</li> <li>3) Define patent and give suitable example of patentin material.</li> </ul>	08 g of biological
	B)	<b>Describe/Explain/Solve</b> Explain in detail the process of acetone - butanol produce applications.	08 ction with its
Q.5	Atte a) b) c)	empt any Two of the following. Explain in detail the process of vinegar production. Describe in detail production of Pullulan and its role. Describe in detail GMP.	16

			Wine Technolo	- av
			day, 24-03-2023 I To 06:00 PM	Max. Marks: 80
Instr	uctio		) All questions are compulsory. ) Figures to right indicate full marks.	
Q.1	A)	Mult 1)	tiple choice questions. Wine is obtained after alcoholic ferme a) Grapes b) c) Apple d)	ntation of Mango Banana
		2)	Rum is distilled froma) Molassesb)c) Grapesd)	Sugarcane All of these
		3)	The heart of Agave plant is known as a) Tea plant b) c) Plam d)	Pinas Arena
		4)	type of press produces the mo a) Membrane press b) c) Vertical basket press d)	Circular basket
		5)	<ul> <li>The term Racking refers to</li> <li>a) Stacking unlabeled wine in bins f</li> <li>b) storing hoses to drain on a slanter</li> <li>c) adding yeast to initiate fermentat</li> <li>d) removing clear liquid from sedimeter</li> </ul>	ed board ion
		6)	is the desirable sugar content wine production. <b>a)</b> 5-10% b) c) 14-20% d)	of the grapes required for the 2-5% 10-14%
		7)	Ales are the beer in which fermentation a) top yeast b) c) either of the above d)	on is carried out using bottom yeast middle yeast
		8)	In sparkling wine production, the cuve a) Drambuie b) c) Both a and b d)	ee is the base wine Top wine
		9)	Alcohol content of sake varies from _ a) 10-20% b) c) 4-17 % d)	12-15% All of these
		10)	Wort is boiled with the hops a) to help in protein coagulation b) to provide bitter taste and flavour	to the beer

B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: Oct/Nov-2022

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- 0

- er taste and flavour to the beer b) to pr
- c) to help in the coagulation of tannins
- d) All of the above

	B)	<ul> <li>Fill in the blank/Definition/One sentence answer /one-word answer</li> <li>/Give the name/predict the product etc.</li> <li>1) Wine History.</li> <li>2) Fermentation</li> </ul>	06
		<ul> <li>3) Enlist Environmental Factors Affecting Fermentation</li> <li>4) Clarification</li> <li>5) Aging</li> </ul>	
		6) Status of Indian brewing	
Q.2	Solv a) b) c) d) e) f) g) h) i)	e 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)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain Importance of automation operation in wine industries.</li> <li>2) Explain Acidity and pH Adjustment in wine.</li> <li>3) Explain anatomical and chemical constituents of oak.</li> </ul>	10
	B)	Short note/Solve Explain in detail Wine Assessment Method.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain in brief Odor Assessment in Wine Testing.</li> <li>2) Write in brief must preparation and clarification.</li> <li>3) Explain in brief Advantages and Disadvantages of Oak Cooperage.</li> </ul>	08
	B)	<b>Describe/Explain/Solve</b> Explain in detail Physiology of matured grapes.	08
Q.5	Atte a) b) c)	<b>mpt any Two of the following.</b> Describe in detail Pre-fermentation Practices. Explain in detail Post-fermentation Treatments. Write in detail basic procedures in wine making.	16

B	B.Sc.	. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: Oct/Nov-2022 ENGLISH Literary Mindscapes – I	:
		te: Tuesday, 28-03-2023 Max. Marks 00 PM To 05:00 PM	: 40
Instr	uctio	<ul><li><b>ons:</b> 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>	
Q.1	Rev 1)	write the following sentences by choosing the correct alternative.In the story 'Growing up' the name of Robert's dog isa) Sportb) Sortc) Shortd) Snore	08
	2)	Aksionov's wife see in her dream about him that a) he lost his hair b) his hair had become grey c) he became ill d) he got arrested	
	3)	In the poem "Sita" children are listening to the story. a) two b) three c) four d) five	
	4)	Who is the painter of the duchess's portrait? a) Aphra Pandolf b) Fra Pangol c) Aphra Behn d) Fra Pandolf	
	5)	In the poem "Ode to Beauty" are read or heard by us. a) Plays and classical music b) Novels and songs c) Lovely tales d) Poetry and western music	
	6)	In the poem "Life" springs again like elastic. a) Tragedy b) Family c) Hope d) Death	
	7)	He went to his office to look for his lost keys. (Choose the correct adverb) a) Back b) Backside c) Back in d) Back up	
	8)	The helping verb always comes after the in indirect form. a) Object b) Complement c) Subject d) Adverbial	
Q.2	Wri a) b) c) d) e) f)	ite answer in short. (Any Four) Why did Robert Quick not ask for the children's affection? Why did Aksionov leave the inn early? Why was the forest so dark and dense in the poem "Sita"? Describe the personality of the Duchess. Describe John Keat's philosophy of Beauty. What did Charlotte Bronte say about life in the poem "Life"?	12

# Seat

No.

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Set P

- Q.3 Answer the following questions. (Any One)a) What is an Information Literacy? Explain the benefits of Information Literacy? OR
  - b) Write a note on Leadership skill with its characteristics.
- **Q.4** What is Environment consciousness skill? Mention habits for environment 10 conservation.

Seat No.					Set					
B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination:										
	Oct/Nov-2022 International Business									
-		nday, 27-03-2 To 06:00 PM			Max. Marks:					
Instruc			s are compulsory. ne right indicate full m	arks.						
Q.1 A	.) Mult 1)	ti <b>ple choice d</b> mea border.	-	ess ac	ctivity that crosses the national					
		a) expor	t ational business	b) d)	international trade import					
	2)	The Recipro by a) J. S. I c) M. Po	Vill	interr b) d)	national business was given David Ricardo Adam Smith					
	3)	,	was started in	d)  b) d)	1990 1965					
	4)	a) Joint	e also called as 'Integi Venture Il firms	ated b) d)	Global' Enterprise! Foreign institution MNC's					
	5)		exchanged rate	urren b) d)	icy is exchanged for another. foreign exchange rate domestic rate					
	6)	Most favoure a) GATT c) IMF		the b b) d)	basic principle of WTO IBRD					
	7)	The term ex a) future c) optior		with <sub>.</sub> b) d)	swaps forwards					
	8)	,	le Direct Investment irect Investment	b) d)	Foreign Direct Investment None					

Flexible Exchange Rate \_\_\_\_\_ as per requirement of the economy. 9)

fixed constant a) b) c) varies none d)

International finance corporation is one type of \_\_\_\_\_. 10)

- a)
- c)
- financial institutionb)development bankNon banking comd)Industrial corporation Industrial corporation

- SLR-FX-47
  - Г Ρ

10

- 80

٦ Seat No

	B)	<ul> <li>Give the name.</li> <li>1) World Trade Organisation headquarter is at</li> <li>2) The ASEAN was formed in</li> <li>3) The Economist Heckscher was which country</li> <li>4) Increases the competitive ability of the business</li> <li>5) India's economy is type of</li> <li>6) The finance minister of India</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following.What is mean by International Business?What is mean by Joint Venture?Forms of FDI.What is mean by Balance of Payment?What is mean by Balance of Payment?What is mean by MNC's?Objectives of ADB.E-commerce concept – B to B.Economic Union.Franchising concept.Full form of:1)SAFTA2)SAARC	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) What are the features of International Business?</li> <li>2) What are the components of balance of payments?</li> <li>3) What are the advantages of Globalization?</li> </ul>	10
	B)	Short note/ Solve. Import and Export Procedure	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Define the problems of International Business.</li> <li>2) What are the advantages of MNC's?</li> <li>3) What are the objectives of GATT?</li> </ul>	08
	B)	<b>Describe or Explain.</b> Define Human Resources Module.	08
Q.5	Atte a) b) c)	<b>mpt any Two of the following.</b> What is mean by FDI? Which factors influencing on FDI? What are the features and trends of Foreign Trade Policy of India? What is Economic Union and give its functions in detail?	16

E	B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: Oct/Nov-2022						
			ORGANIZATIONAL BEHAVIOR				
			onday, 06-02-2023 / To 06:00 PM	Max. Marks: 80			
Insti	ructio	2	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> <li>Use of log table and calculator is allowed.</li> <li>Draw neat labelled diagrams wherever necessary.</li> </ol>				
Q.1	A)	Mul 1)	tiple Choice Questions.Organizational Behavior isa)A Scienceb)An Artc)A Science as well as artd)	10			
		2)	Meso Organization behavior is related with a) Individual Behavior b) Group Behavior c) Organization Behavior d) None of these				
		3)	Communication begin witha) Encodingb) Idea Orientationc) decodingd) Chalnal Selection				
		4)	a) William Gibreth b) Hendry Fayol c) F.W. Taylor d) Elton Mayo				
		5)	Motivation includesa) Job Enrichmentb) Job relationc) Job Enlargementd) All of these				
		6)	The Job satisfaction of an employee depends on the a) Behavior b) Attitude c) Personality d) Employer				
		7)	A satisfied employee will be a a) Motivator to other b) Manager c) High Performer d) Team Leader				
		8)	Planning is a Process. a) Goal Oriented b) Flexible c) Time Bound d) All of these				
		9)	Forces affecting organizational behavior are a) People b) Environment c) Technology d) All of these				
		10)	<ul> <li>EDI stands for</li> <li>a) Electronic Data Interchange</li> <li>b) Easy Data Interchange</li> <li>c) Effective Data Interchange</li> <li>d) Era Data Interchange</li> </ul>				

#### D C (Somostor (Now) (CRCS) Examination: ourchin)

Page 1 of 2

SLR-FX-48

d) Era Data Interchange

- Set Ρ

			SLR-FX-48
	B)	<ul> <li>Answer in One Sentence.</li> <li>1) What is Structure?</li> <li>2) What is Behavior?</li> <li>3) Long for of WWW.</li> <li>4) Define Politics.</li> <li>5) Define Management.</li> <li>6) What is Electronic?</li> </ul>	06
Q.2	a) b) c) d) e) f) g)	Ve any Eight of the following. Write down Electronic Payment. Write down thinking Memory. What is Work Stress? What is Perceptions? What is Internet? What is Electronic Market? What is Security? Write down job satisfaction. Write down use of Industries.	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain the Evolution of Organization Behavior.</li> <li>2) Explain the type of Political Activity.</li> <li>3) Describe Source of Stress.</li> </ul>	10
	B)	Shorts Note on "Personality".	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain the Nature &amp; Scope in Organization Behavior.</li> <li>2) Explain the type of E-Commerce.</li> <li>3) Write down Individual and Interpersonal Behavior.</li> </ul>	08
	B)	<b>Describe the following.</b> Explain the Nature, Importance of Motivation.	08
Q.5	Atte a) b)	empt any Two of the following. Explain the Maslow's and Goal Setting Theory. What is power? Explain Sources and Tactics of Power.	16

c) Describe the Individual & Organization Behavior.

B.Sc.	(Ent	repre	eneurship) (Semo Oct	ester - VI) ( /Nov-2022	New) (CBCS) Ex	amir
		TE	ECHNIQUES IN II	NDUSTRIA	_ CHEMISTRY	
Day & Dat Time: 03:0			, 07-02-2023 5:00 PM			Max
Instructio			uestions are compute res to the right indica			
Q.1 A)	<b>Cho</b> 1) 2)	The 2 a) c)	<b>ne correct alternativ</b> Zeolite is regenerate 10%NaCl 10%NaOH ratio of distance trave	d by soaking b) d)	it in solution 10% HCI 10% H2SO4	
		a) c)	 Constant value Rf value	b) d)	Partition coefficien Capillary action	t
	3)	The is a) c)	residue left in the rou  volatile both	und bottom fla b) d)		distill
	4)	the fo	ium and aluminium r ollowing categories?	materials can	be classified under v	which

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No.	

it is known as ient of distillation ve er which of С a) А b) D d) В C) Paper chromatography is \_\_\_\_\_ form of chromatography. 5) liauid-solid a) liquid-gas b) liquid-liquid all C) d) Due to presence of Ca+ and Mg 2+ ions water is \_\_\_\_\_. 6) potable soft a) b) C) normal d) hard is an example of type fire A. 7) Wood Oil a) b) Electrical source d) All of these C) 8) Fractional distillation is different from distillation because of the presence of \_\_\_\_\_. fractionating column condenser b) a) distillation flask d) conical flask C) Soda ash fire extinguishers consists of \_\_\_\_\_ and acid. 9) NaHCO<sub>3</sub> Na<sub>2</sub>CO<sub>3</sub> b) a) C) NaOH d)  $Na_2S_2O_3$ 

The silica gel is used in column chromatography as \_\_\_\_\_. 10)

- effluent a) C)
- b) Column support
- absorbent d) adsorbent

SLR-FX-49

Set

10

Max. Marks: 80

Examination:

	B)	<ul> <li>Fill in the blanks and complete the following sentence.</li> <li>1) Halon-1301 is also known as</li> <li>2) Most of the enzymatic reactions are in the range of pH</li> <li>3) Oil is an example of type fire</li> <li>4) In gas chromatography, the is used as mobile phase.</li> <li>5) Rectifying continuously is known as</li> <li>6) type of fire extinguisher must not be used in case of electrical base.</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following. What are the different types of Chromatography? Define Friedel craft's alkylation reaction. Name the factors which affects the distillation. Write the class of fire extinguishers How Rf value can be calculated? What are the Microwave assisted reaction? Write the different adsorbents used in column chromatography. How will you prepare benzoic acid from toluene? Why carbon dioxide is used in fire extinguisher? How does fractional distillation separate crude oil?	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) What are the biocatalysts? Write the advantages of biocatalyst.</li> <li>2) Describe the Soda acid extinguishers.</li> <li>3) Draw the neat labeled diagram of continuous distillation and explain it.</li> </ul>	10
	B)	Write a note on oxidation of benzene to phenol and hydroquinone.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain CO<sub>2</sub> as fire extinguisher.</li> <li>2) What are the applications of TLC?</li> <li>3) Write structure and uses of Zeolite.</li> </ul>	08
	B)	Describe in details how paper chromatography is carried out.	80
Q.5	Atte a) b)	<b>mpt any Two of the following.</b> Give the brief description of the principle of fractional distillation. Explain the portable fire extinguishers and antifreeze extinguishers.	16

c) Explain the High pressure liquid chromatography.

Seat	
No.	

#### B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination Oct/Nov-2022 GENETIC ENGINEERING

Day & Date: Wednesday, 08-02-2023 Time: 03:00 PM To 06:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Use of log table and calculator is allowed.

4) Draw neat labelled diagrams wherever necessary.

#### Q.1 A) Multiple choice questions.

C)

3)

- A gene produced for recombinant DNA technology contains a gene 1) from one organism joined to the regulatory sequence of another gene. Such a gene is called . b)
  - oncogene a)
    - junk gene d) none
- Self-replicating, small circular DNA molecules present in bacterial cell 2) are known
  - a) Plasmids b) Cosmids
  - Plasmomeros C)
  - Which group of enzymes are popularly called "Molecular stichers"?
    - Restriction Endonuclease b) Ligases

d)

d)

- a) RNA polymerase C)
- RFLP is 4)
  - **Renewed Fragment Length Polymorphism** a)
  - Required Fragment Length Polymorphism b)
  - **Restriction Fragment Length Polymorphism** C)
  - Repeated Fragment Length Polymorphism d)
- The first human protein produced through recombinant DNA 5) technology is \_\_\_\_\_. b)
  - insulin a)

a)

- interferon C) d)
- 6) Ti plasmids are found in
  - Pseudomonas spp a) c) E. coli
- b) Mycoplasma

erythropoietin

somatostatin

chimeric gene

**DNA** polymerase

plastids

- d) Agrobacterium tumifacians
- type of restriction enzyme most commonly used in r-DNA 7) technology.
  - Type I Type II b) a) Type IV
  - Type III d) C)
- 'Molecular scissors' in genetic engineering are 8)
  - DNA polymerase b) DNA ligase
  - Restriction endonuclease Helicase C) d)

10

Max. Marks: 80

- 9)
- PCR stands for \_\_\_\_\_. a) Polymerase chain reaction
  - Poly chain reaction b)
  - Both a and b C)
  - d) All of these

		<ul> <li>10) Western blotting is technique for detection of</li> <li>a) specific glycolipid in a sample</li> <li>b) specific RNA in a sample</li> <li>c) specific protein in a sample</li> <li>d) specific DNA in a sample</li> </ul>	
	B)	<ul> <li>Give the name/Predict the product etc.</li> <li>1) Define vector in genetic engineering.</li> <li>2) Write any two transgenic plant names.</li> <li>3) Applications of DNA Fingerprinting.</li> <li>4) Role of restriction endonuclease in genetic engineering.</li> <li>5) Which type of restriction endonuclease is used in genetic engineering?</li> <li>6) Give the any two name of DNA modifying enzymes.</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	e any Eight of the following. Write a note on BAC. Role of phosphatase and kinase in r-DNA technology. Explain the electroporation technique. Draw a neat and labelled diagram of p UC vector. Define probe and give its types. Write a note on edible vaccine. Define electrophoresis and give its types. Explain the concept protein engineering. Write a note on DNA polymerase. Write a note on cosmid.	16
Q.3	<b>A</b> )	<ol> <li>Define the nuclease and explain the types of Restriction endonucleases.</li> <li>Explain the liposome mediated gene transfer technique.</li> <li>Describe the microarray technique.</li> </ol>	10
	B)	Short note/Solve Explain in detail the various gene transfer techniques.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Write a note on expression vectors.</li> <li>2) Explain the PCR techniques and its applications.</li> <li>3) Write a note on Recombinant vaccine.</li> </ul>	08
	B)	<b>Describe/Explain/Solve.</b> Explain the agarose gel electrophoresis and give its application.	08
Q.5	Atte a) b) c)	mpt any Two of the following. Explain the SDS- PAGE and give its applications. Explain in detail the Sothern and Northern blotting. Describe in detail the Sangers method of DNA sequencing.	16

#### B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: Oct/Nov-2022 **TECHNIQUES IN PLANT TISSUE CULTURE**

Day & Date: Wednesday, 08-02-2023 Time: 03:00 PM To 06:00 PM

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Use of logarithmic table and calculator is allowed.

4) Draw neat labelled diagrams wherever necessary.

#### Q.1 A) Multiple choice questions.

1)

- is the advantage of animal tissue culture.
  - It is cost effective a)
  - b) No skilled personnel is required
  - Tissue culture can be stored after long time C)
  - Maintance of environmental conditions is easy d)
- is the primary equipment required for animal tissue culture 2) laboratories.
  - a) Glassware

b) Laminar air flow all of these d)

- Sterilizer C)
- What is the cell line? 3)

a)

a)

9)

- Multilaver culture a)
- Transformed cells b)
- Multiple growth of cells C)
- Sub culturing of primary culture d)
- Haploid plants can be obtained from 4)
  - Anther culture Pollen culture a) b) C)
    - leaf culture Root culture d)
- solidifying agent is used to plant tissue culture. 5)
  - Nicotinic acid Cobalt chloride a) b)
    - C) Agar d) EDTA

6) Plant tissue culture is artificial method of

- Vegetative propagation Hybridization b)
- Selection Asexual reproduction d) C)
- Cellular totiotancy is the property of 7)
  - Plants Animals a) b)
  - C) Bacteria d) all of these
- Animal cell culture are used widely for production of 8)
  - Insulin Somatostatin a) b)
  - Mabs Thyroxine C) d)

is the concentration of CO<sub>2</sub> required for culturing animal cell.

- 2-5% b)
- C) 1-10%
- 10-15% d) 15-20%

Max. Marks: 80

		10)					nical to strip the cell of plant			
			a)	of two sexual i Mass selection		b)	Protoplast fusion			
			c)	Transformatio		d)	Transpiration			
	В)		<b>the</b> Nat Cor Sur Phy Hap	e blank/Definit name /predic ural Media nplete Media face Sterilizatio rsical Method ploid okinin	t the product		inswer /one word answer	06		
Q.2	Solv	Solve any Eight of the following.								
	a) b) c) d) e) f) h) i)	Write Expla Write Expla Expla Write	note in in note in in note in in note	e on Concept o e on Growth of brief Culture r e on Principle F brief Inocululu e on Principal o brief Pollen cu brief Mechanic brief Sterilizat	suspension cu oom. Protoplast fusic im room. of callus culture ilture. cal Method. gy of callus cult	on. e. ture.				
Q.3	A)	Atten 1) 2) 3)	Hist Def	any Two of the cory of animal t ine Anther cult es of organ cu	issue culture. ure and factors		ting anther culture. culture.	10		
	B)			ort Note and application	of shoot tip cu	ulture.		06		
Q.4	A)		Exp Writ	any Two of the lain in brief Ce te callus cultur lain in brief Co	Il Monitoring. e application a			08		
	B)	Expla	in La	aboratory orga	nization of anir	nal tiss	sue culture.	08		
Q.5	Atte a)		ibe i	wo of the follo		edia ar	nd physicochemical properties	16		
	b)			structure Autoo	clave and its P	rinciple	e & Application.			

c) Explain the Micropropogation and its Stages, Applications.

		ENGLI Literary (		- st	
		e: Tuesday, 28-03-2023 0 PM To 05:30 PM	240	Max. Marks	: 70
Instr	uctior	<ul><li>ns: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full</li></ul>	marl	(S.	
Q.1	<b>Choo</b> 1)	ose the correct alternatives from th 'Values in Life' is a speech delivered students in a) Canada c) Scotland	-		14
	2)	'Don't be' is the message de a) selfish c) smart	b)	ed by Kipling. liar thief	
	3)	Shaw is addressing to stude English'. a) native c) British		n 'Spoken English and Broken foreign common	
	4)	According to Shaw, if foreigners war people, they should not try and spea a) perfect c) incorrect		English.	
	5)	When the grandmother died, the hou a) silence c) darkness	use w b) d)	<i>v</i> ithdrew into noise happiness	
	6)	O Captain! my Captain! rise up and I a) song c) bells	b)	the music sounds	
	7)	<ul> <li>'All that is best of and</li> <li>eyes,' according to Byron.</li> <li>a) day and night</li> <li>c) dark and bright</li> </ul>	b)	in the woman's aspects and her day and bright dark and night	
	8)	Upagupta was the disciple of a) Buddha c) Ashoka	 b) d)	Tagore None of the above	
	9)	is the synonym for 'cheat'. a) honest	b)	serene	

d) dexterity

wane

d) decline

b)

.

B.Sc. (Entrepreneurship) (Semester - VI) (Old) (CBCS) Examination: Oct/Nov-2022

Seat

No.

10)

deceive

dewax

fax

'Wax' is the antonym for \_\_\_\_

C)

a)

C)

### SLR-FX-52

Set P
16

12

14

14

- 11) \_\_\_\_\_ is the antonym for 'folly'.
  - a) Wisdom
    - c) Clear
- 12) \_\_\_\_\_ is the synonym for 'remote'.
  - a) Wet
  - c) Mobile

#### 13) \_\_\_\_\_ is the synonym for 'novel'.

- a) New
- c) Medal
- 14) \_\_\_\_\_ is the antonym for 'eager'
  - a) Meager b) Sugar
    - c) Sad d) Reluctant

#### Q.2 Answer any four of the following questions.

a) Comment on the subject matter of the poem 'My Grandmother's House'.

b) Sillv

d) Mistake

b) Shadow

d) Distant

b) Prize

Old

d)

- b) What is the speaker's desire in the poem 'My Grandmother's House'?
- c) What awaits the Captain in the poem 'O Captain! My Captain!'?
- d) Analyze the metaphors used in the poem 'O Captain! My Captain!'.
- e) Comment on the beauty of the woman described in the poem 'She Walks in Beauty'.
- f) Comment on the theme of the poem 'Upagupta'.

#### Q.3 Answer any two of the following questions.

- a) What will happen when you will meet a man who does not want money, according to Kipling?
- **b)** How should a foreigner speak when he/she wants to communicate or ask for directions, according to Shaw?
- c) What is meant by Prefix? Give four examples of prefixes.
- d) What is meant by Suffix? Give four examples of suffixes.

#### Q.4 Answer any one of the following questions.

What is meant by leadership Skills? Comment on qualities of a good leader.

#### OR

What are the techniques one should follow to become an effective team member?

**Q.5** Write in detail about how to manage your time in a better way.

Oct/Nov-2022 International Business Day & Date: Monday, 27-03-2023 Time: 03:00 PM To 05:30 PM Instructions: 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. is the exchange of goods and services between the two countries, 1) across their international borders. a) International Trade b) Domestic Trade c) Illegal Trade d) **Future Market** WTO was established on \_\_\_\_\_. 2) a) 1945 b) 1995 c) 1955 1992 d)

#### 3) World's largest trading Block is \_\_\_\_\_ b) a) NAFTA

c) AFTA d)

refers to a process of increasing economic integration and growing 4) economic interdependence between countries in the world economy.

- a) Liberalisation b) Privatisation
- c) Globalisation d) Multinational Company

is a contract under which a firm agrees to fully design, construct 5) and equip a manufacturing or business or service facility and turn the project to the purchaser ready for operation for remuneration.

b)

d)

a) Franchising

Seat

No.

- c) Turnkey Project
- SAP SE is \_\_\_\_\_ multinational software company. 6)
  - a) Indian Chinese b) c) German d) American
- EXIM policy is also called as \_\_\_\_\_. 7)
  - b) a) Foreign trade Policy Export Policy
  - c) Import Policy Trade Policy d)
- The General Agreement on Tariff and Trade was replaced by 8)
  - a) North American Free Trade Agreement
  - b) Association of South East Asian Nations
  - c) World Trade Organisation
  - d) Multilateral Agreement
- A tax imposed on certain type of imported goods is \_\_\_\_ 9)
  - a) A tariff

- A surcharge b)
- c) A goods and service tax d) A quota

SLR-FX-53

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

Max. Marks: 70

14



Management Contract

Joint Venture

- SAFTA
- SAARC

Set

	10)	Balance of payments of a country includes a) Capital Account b) Current Account c) Official Reserve Account d) All the above	
	11)	is popularly known as World Bank. a) IMF b) WTO c) IBRD d) ADB	
	12)	<ul> <li>NAFTA stands for</li> <li>a) North African Free Trade Association</li> <li>b) North American Free Trade Agreement</li> <li>c) North Asian Free Trade Area</li> <li>d) North Asian Free Trade Association</li> </ul>	
	13)	Bill of Lading is issued by thea) Captain of the vesselb) Shipping companyc) Customs authoritiesd) Consignor	
	14)	The apex body of the Foreign Trade is a) The Central Government b) The State Government c) The Ministry of Commerce d) All the above	
Q.2	A)	<ul> <li>Define and explain the following. (Any Four)</li> <li>1) Define Joint Venture.</li> <li>2) Define Trade Bloc.</li> <li>3) What is letter of credit?</li> <li>4) What is globalization?</li> <li>5) Define FDI.</li> </ul>	08
	B)	<ul> <li>Write short notes on (Any Two)</li> <li>1) Explain nature of international business.</li> <li>2) Explain licensing.</li> <li>3) Explain Free Trade Area.</li> </ul>	06
Q.3	A)	<ul> <li>Answer the following questions. (Any Two)</li> <li>1) Explain mercantilism theory of international business.</li> <li>2) Explain importance of international business.</li> <li>3) What is B2B and B2C business model in ecommerce?</li> </ul>	08
	B)	<ul> <li>Answer the following questions. (Any One)</li> <li>1) Explain various SAP modules.</li> <li>2) Explain problems of international business.</li> </ul>	06
Q.4	A)	<ul> <li>Answer the following questions. (Any Two)</li> <li>1) Explain components of balance of payment.</li> <li>2) Explain role of MNCs in economic development.</li> <li>3) Explain types of trade blocs.</li> </ul>	10
	B)	<ul> <li>Answer the following questions. (Any One)</li> <li>1) Explain drivers of globalization.</li> <li>2) Explain functions of WTO.</li> </ul>	04
Q.5	Ans a) b) c)	wer the following questions. (Any Two) Explains modes of entering into international business. Explain advantages and disadvantages of globalization. Explain import / export procedure.	14

Oct/Nov-2022 ORGANIZATIONAL BEHAVIOR	
Day & Date: Monday, 06-02-2023 Time: 03:00 PM To 05:30 PM	Max.
<ul> <li>Instructions: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat diagrams and equations wherever necessary.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> </ul>	
Q.1Multiple Choice Questions.1)Communication begin witha)Encodingb)Idea originationc)Decodingd)Channel select	
<ul> <li>2) The problem solving process begins with</li> <li>a) Clarification of the situation b) Establishment of alterr</li> <li>c) Indemnification of the difficult d) Isolation of the cause</li> </ul>	native
<ul> <li>Forces affecting organizational behavior are</li> <li>a) People</li> <li>b) Environment</li> <li>c) Technology</li> <li>d) All of these</li> </ul>	

WWW stands for \_\_\_\_\_. 4)

Seat

No.

- a) Word Wide Web
  - c) Web World Wide
- 5) EDI stands for

7)

- a) Electronic Data Interchange
- c) Electronic Data Investment
- Organizational behavior is \_\_\_\_\_. 6)
  - a) A Science
    - c) An art
  - d) None of these Which of the following form the for a autocratic model of OB.

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

- a) Obedience b) Authority
- d) Dependent on the c) Power
- 8) "Might is Right" is the motto of \_
  - a) Autocratic Model b) Custodial Model
  - d) Collegial Model c) Supportive Model
- Organizational Behavior is the study of \_\_\_\_\_ in the organization. 9)
  - a) Human b) Human behavior c) Employer
    - d) Employee
- Job Satisfaction have related to a absenteeism and Turnover. 10)
  - a) positively b) negatively
    - d) elastically
- is recognized as father of relation "Human Relation". 11)
  - a) William Gilbert
  - c) F. W. Taylor

c) directly

b) Hendry Fayola

b) World Wide Web

d) Wide Word Web

b) Electronic Data Interest

d) Electronic Data Inverse

b) A Science as well as Art

d) Elton Mayo

#### Max. Marks: 70

14

Set

	12)	a) Behavior b) Stimulus c) Perception d) Attitude	
	13)	is a study of individual Behavior. a) Anthropology b) Psychology c) Political Science d) Sociology	
	14)	The job satisfaction of employee depends on the a) Behavior b) Attitude c) Personality d) Employee	
Q.2	A)	<ul> <li>Answer the following. (Any Four)</li> <li>1) Define organization.</li> <li>2) Define Industries.</li> <li>3) What is Politics?</li> <li>4) What is Motivation?</li> <li>5) Define E-Commerce.</li> </ul>	08
	B)	<ul> <li>Write notes on the following. (Any Two)</li> <li>1) Evolution of OB.</li> <li>2) Security Requirement.</li> </ul>	06
Q.3	A)	<ul> <li>Answer the following. (Any Two)</li> <li>1) Write down uses of Industries.</li> <li>2) Write down determinants of group behavior.</li> <li>3) Difference between Traditional Commerce and E-commerce.</li> </ul>	08
	B)	<ul> <li>Answer the following. (Any One)</li> <li>1) What is Power? Explain the Source of Power?</li> <li>2) What is Perceptions? Write down perceptual process.</li> </ul>	06
Q.4	A)	<ul> <li>Answer the following. (Any Two)</li> <li>Write down Theory of Motivation "Maslews".</li> <li>Write down Theory of Motivation "Hereberg ".</li> <li>What is Stress? Write down sources of Stress?</li> </ul>	10
	B)	<ul> <li>Answer the following. (Any One)</li> <li>1) What is Group? Write down type of Groups.</li> <li>2) Explain the Jon Satisfaction.</li> </ul>	04
Q.5	Ans a) b)	wer the following. (Any Two) What is Personality? Write down Maslos and Trait Theory. Explain the Modes of E-Commerce.	14

c) Difference between E-Cash and E-Payment.

Seat No.	t	Set P
В	B.Sc.	(Entrepreneurship) (Semester - VI) (Old) (CBCS) Examination:
		Oct/Nov-2022 TECHNIQUES IN INDUSTRIAL CHEMISTRY
		e: Tuesday, 07-02-2023 Max. Marks: 70 D PM To 05:30 PM
Instru	uctior	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat labeled diagrams wherever necessary.</li> </ul>
Q.1	<b>Cho</b> 1)	ose the correct alternative & rewrite the sentences again       14         & ions are responsible for hardness of water       14
	1)	a) Ca, Mg c) Mg, Na b) Al, Si d) Na, k
	2)	Current density is expressed ina) Sq. ftb) Sq. cmc) md) A/dm²
	3)	Gas chromatography is used to separatecomponent.a) Non-volatileb) Volatilec) Solidd) Semi-solid
	4)	Alkyl group is introduced in the benzene nucleus bya) Friedel craft acylationb) Acetylationc) Acetyl chlorided) Friedel craft alkylation
	5)	Anodizing is tr process which gives the coating of oxide film on the surface of & its alloy. a) Al
		c) Sn d) Cn
	6)	% of nickel is used for nickel plating.           a)         80         b)         50           c)         99         d)         100
	7)	In chromatography the 99. medium act as stationary phase. a) Column b) Gas c) HPLC d) Paper
	8)	Al metal is referred for oxidation. a) anode b) air c) cathode d) none of these
	9)	Microwave assisted reactions area) cleanb) fastc) fuel efficientd) all of these
	10)	is example of type fire B.a) Paperb) Woodc) Oild) Cloth
	11)	Zeolites are regenerated by soaking it in solution.a) 10% HCLb) 10% Naclc) 10% NaoHd) 10% HNO3

#### 1 Spat

# Γ

	12)	In paper chromatogram the basic material used is a) cellulose b) cotton c) pulp d) starch	
	13)	Green chemistry containing mainly principles. a) 8 b) 14 c) 16 d) 12	
	14)	Biocatalytical reactions are catalysed by a) alcohol b) carbohydrates c) enzyme d) protein	
Q.2	A)	<ul> <li>Answer any four of following.</li> <li>1) Give faradays law of electrolysis</li> <li>2) Name different types of fire extinguisher</li> <li>3) Define zeolite. Give its stretcher.</li> <li>4) How Rf value is calculated.</li> <li>5) What is portable fire extinguisher?</li> </ul>	08
	B)	<ul> <li>Answer any two of following.</li> <li>1) Describe microwave assisted reactions.</li> <li>2) Describe electrolysis.</li> <li>3) Explain packing of column in gas chromatography.</li> </ul>	06
Q.3	A)	<ul> <li>Answer any tow of following</li> <li>1) Explain antifreeze extinguisher.</li> <li>2) Explain uses of TLC.</li> <li>3) Write note on HPLC</li> </ul>	08
	B)	<ul> <li>Answer any one of following.</li> <li>1) Explain nickel electroplating.</li> <li>2) Explain thin layer chromatography.</li> </ul>	06
Q.4	A)	<ul> <li>Answer any two of following.</li> <li>1) What do you understand the term biocatalytic hydroxylation?</li> <li>2) Explain Anodising.</li> <li>3) explain principle &amp; experimental procedure for paper chromatography.</li> </ul>	10
	B)	<ul> <li>Answer any one of following.</li> <li>1) Write note on soda ash extinguisher.</li> <li>2) Cleaning of article explain in brief.</li> </ul>	04
Q.5	Ans a) b)	wer any two of following. Give 12 principles of green chemistry. Explain alkylation & acylation reactions.	14

c) What are bio catalyst? Write advantages & disadvantages of biocatalyst.

Max. Marks: 70

14

# enteneurohin) (Compostor VII) (Old) (CDCC) Exemin

#### B.Sc. (Entrepreneurship) (Semester - VI) (Old) (CBCS) Examination: Oct/Nov-2022 GENETIC ENGINEERING

Day & Date: Wednesday, 08-02-2023 Time: 03:00 PM To 05:30 PM

Seat No.

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Draw a neat labeled diagram wherever necessary.

#### Q.1 Choose the correct alternatives and rewrite the sentences again.

- 1) The loop region is single stranded so it can be cleaved by which enzyme
  - a) S1 nuclease b) DNase
  - c) Exonuclease d) RNaseH
- 2) What is the second primer in case of 5' RACE?
  - a) Internal primer b) Oligo -dA sequence
  - c) Adapter-oligo-dT Primer d) All of these

#### 3) What is the final product of RNase H method?

- a) Blunt ended dS DNA
- b) Staggered dS DNA at 3'end
- c) Staggered dS DNA at both end
- d) Staggered dS DNA at 5'end
- 4) The first transgenic plant to be produced \_\_\_\_\_
  - a) Rice b) Cotton
  - c) Maize d) Tobacco
- 5) Taq polymerase is used for PCR because of its \_
  - a) Low thermal stability b) High speed
  - c) High thermal stability d) High fibalility
- 6) The main difference between plasmid and episome \_\_\_\_\_.
  - a) Episome is circular plasmid is linear
  - b) Plasmid is circular episome is linear
  - c) Plasmid can be inserted into host genome episome are not
  - d) Episome can be inserted into host genome
- 7) DNA sequencing is done by \_
  - a) Maxam Gilbert method b) Sanger didoxy method
  - c) Both a & b d) None of these
- 8) Introduction of recombinant DNA into bacterial by using current is called
  - a) Transformation b) Electroporation
  - c) Transduction d) None of these

#### 9) Telomeric sequence are found in \_\_\_\_\_.

a) HAC b) BAC c) YAC d) PAC

	10)	Which of the following is not restriction endonuclease?a) Eco RIb) DNA ligasec) Hind IIId) None of these	
	11)	DNA staining is done bya) Crystal violetb) Giemsa stainc) Feulgen staind) Methylene blue	
	12)	Nick traslation is done bya) Kinaseb) DNA polymerase Ic) DNA polymerase IId) DNA ligase	
	13)	The uptake of plasmid DNA into bacterial cell is facilitated s in presence of	
		a)Calcium chlorideb)Magnesium chloridec)Potassium chlorided)All of these	
	14)	are the Molecular Scissors' of genetic engineering.a) Restriction endonucleaseb) Endonuclasesc) Polymerased) Isomarase	
Q.2	A)	Define and explain. (Any Four)(Any Four)1)Define Microinjection.2)Define PCR.3)Define Chromosome jumping.4)Define recombinant vaccine.5)What is Transgenic plant?	08
	B)	<ul> <li>Write short note. (Any Two)</li> <li>1) Define plasmid and its application.</li> <li>2) Explain in brief Western blotting.</li> <li>3) Write short note on Chromosome Walking.</li> </ul>	06
Q.3	A)	Answer the following questions. (Any Two)1)Explain SDS-PAGE.2)Write note on microarray analysis.3)Explain Cosmid and BAC vector.	08
	B)	<ul> <li>Answer the following questions. (Any One)</li> <li>1) Discuss Southern blotting.</li> <li>2) Explain Bacteriophage lambda and M13 vector.</li> </ul>	06
Q.4	A)	<ul> <li>Answer the following questions (Any Two)</li> <li>1) Explain DNA modifying enzyme and their application.</li> <li>2) Write note on Colony hybridization and colony PCR.</li> <li>3) Explain Gene delivery with Microinjection and Electroporation.</li> </ul>	10
	B)	Answer the following questions. (Any One)(Any One)1)Explain Northern blotting.2)Explain transgenic plant Bt cotton.	04
Q.5	Ans a) b) c)	ver the following questions. (Any Two) Describe engineering and site directed mutagenesis. Explain DNA polymerase with trasferase and kinase phoshotases. Singer's method of DNA sequencing'.	14

		IECHNIQUES IN PLAN		SSUE CULTURE
		e: Wednesday, 08-02-2023 0 PM To 05:30 PM		Max. Mark
Instr	ructio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full</li> <li>3) Draw neat labeled diagrams whet the second s</li></ul>		
Q.1	<b>Cho</b> 1)	ose the correct alternative and rewn Tissue culture media are sterilized in a) Autoclave c) Laminar flow hood	ר <u>b</u> )	
	2)	The mammalian cells require a a) 5°C c) 37°C	te b)	·
	3)	are used as natural media a) Plasma clot c) Embryo extract	b)	e animal tissue culture laboratory. Serum All of these
	4)	<ul> <li>is required to store medium</li> <li>a) Media preparation room</li> <li>c) Incubation room</li> </ul>	b)	
	5)	<ul> <li>is the characteristic of a normal and a normal and a characteristic of a normal and a characteristic of a normal and a normal and a characteristic of a normal and a normal and a characteristic of a normal and a normal and a characteristic of a normal and a normal and a characteristic of a normal and a characteristic of a normal and a normal and a characteristic of a normal and a normal and a characteristic of a normal and a normal and a characteristic of a characteristic of a characteristic of a normal and a characteristic of a characteristic of a normal and a characteristic of a characteristic of a characteristic of a normal and a characteristic of a characteristic of a normal and a characteristic of a characteristic of a characteristic of a normal and a characteristic of a normal and a characteristic of a normal and a characteristic of a</li></ul>		
	6)	Disaggregating of cells can be achie a) Physical disruption c) Treating with chelating agents	b)	Enzymatic digestion
	7)	is easy and rapid method to system. a) Trypan blue dye exclusion c) Neutral red assay		pret viability of cells in culture Fluorescein dye assay Methyl red assay
	8)	Flow cytometry is used for a) cell transformation c) cellular division	 b) d)	cell mutation cell counting
	9)	is the innate ability of a sing	-	ell to produce all cell types.

B.Sc. (Entrepreneurship) (Sem-VI) (Old) (CBCS) Examination: Oct/Nov-2022 **TECHNIQUES IN PLANT TISSUE CULTURE** 

Seat

No.

- SLR-FX-57
  - Set Ρ

# е

- a) Cell Propagation c) Cellular Totipotency
- b) Cellular Growth
- d) Cellular Division

Marks: 70

14

	10)	Murashige and Skoog invented a) root culture b) tissue culture medium c) Virus-free Dahlia and potato plants d) test-tube fertilization in flowering plants	
	11)	Auxins and Cytokinins area) growth hormonesb) antibioticsc) saltsd) energy sources	
	12)	PGR inhibits plant metabolism and seed germination. <ul> <li>a) Ethylene</li> <li>b) Cytokinins</li> <li>c) Abscisic acid</li> <li>d) Gibberellins</li> </ul>	
	13)	Male gametophyte of angiosperms/monocots is a) microporangium b) nucellus c) microspore d) stamen	
	14)	The plant part used for tissue culture is known as a) tissue b) organ c) callus d) explant	
Q.2	A)	<ul> <li>Answer any four of the following questions.</li> <li>1) What is natural nutrient media?</li> <li>2) What is enzyme?</li> <li>3) What is totipotency?</li> <li>4) What is meristem culture?</li> <li>5) What is PGR?</li> </ul>	08
	B)	<ul> <li>Write short notes. (Any Two)</li> <li>1) Serum free media</li> <li>2) Primary culture</li> <li>3) Cell theory</li> </ul>	06
Q.3	A)	<ul> <li>Answer any two of the following questions.</li> <li>1) Explain in brief root tip culture.</li> <li>2) Describe in brief sterilization of nutrient media.</li> <li>3) Write in brief cell synchronization.</li> </ul>	08
	B)	<ul> <li>Answer any one of the following questions.</li> <li>1) Write in brief callus culture.</li> <li>2) Explain in brief ovary and ovule culture.</li> </ul>	06
Q.4	A)	<ul> <li>Answer any two of the following questions.</li> <li>1) Describe in detail characteristics of animal cell in culture.</li> <li>2) Explain in detail cell line establishment process.</li> <li>3) Write in detail suspension culture.</li> </ul>	10
	B)	<ul> <li>Answer any one of the following questions.</li> <li>1) Explain in brief Anther and Pollen Culture.</li> <li>2) Describe in brief tissue culture laboratory design.</li> </ul>	04
Q.5	Ans <sup>r</sup> a) b) c)	wer any two of the following questions. Write an essay on cell separation methods. Describe in detail micro propagation. Explain in detail cell counting and monitoring methods.	14

Seat No.	Marks Obtained	Signature of Examiner	Signature of Junior Supervisor
B.Sc.	(Entrepreneurship) (Sem O	ester - II) (New) (First ct/Nov-2022	t Year) Examination:
	DEMOCRACY, ELECTI	IONS AND GOOD GO	VERNANCE
	Date: Sunday, 12-02-2023 2:00 PM to 02:00 PM		Max. Marks: 50
सचनाः	1) सर्व प्रश्न अनिवार्य आहेत.		
6	2) उजवीकडील अंक गुण दर्शवत	ात.	
			Answer
	ग्य पर्याय निवडा. प्रमाणकाकीन उभागिक प्रमाणका -		- जागा जानीन
1.	महाराष्ट्रातील स्थानिक स्वराज्य आहेत?	संस्थानध्य महिलासाठा किता	जागा राखाव
	आहरा. अ) 50%	ब) 33%	
	क) 25%	ड) 70%	
2	हे भारताचे सध्याचे मुख्य 1	, निवडणक आयक्त आहेत	
	अ) सुनिल अरोरा	ब) तामिळ सेल्वम	
	क) के. उन्नीकृष्णन	ड) रामनाथ कोविंद	
3.	भारतीय राज्यघटनेत मूलभूत हक	कांचा समावेश —— भागात	करण्यात
	आला आहे.		
	अ) तिसऱ्या	ब) घटनादुरूस्ती	
	क) त्याहत्तराव्या	ड) सारांश	
4.	अप्रत्यक्ष लोकशाहीला —— लोव		
	अ) वाईट	ब) प्रातिनिधिक	
	क) नकारात्मक	ड) सकारात्मक	
5.	जर भारतात कोणी व्यक्ती किंवा		र बंधने
	आणली तर नागरिकांना ––– द अ) सर्वोच्च आणि उच्च न्यायालय		
	क) सरकारकडे	य ब) संसदस ड) ग्रामसभेत	
6	सामाजिक लोकशाहीचे उद्दिष्ट –	,	
0.		<ul> <li>ब) नोकरशाहीला</li> </ul>	
	क) श्रीमंत लोकांना	ड) सुशिक्षितांना	
7.	भारतीय राज्यघटनेत किती मूलभू	, 0	ण्यात आला
	आहे. २१) जन्म	त्र) मन्द्र	
	अ) सहा क) दहा	ब) एक ड) बारा	
	ישא איי		

<ol> <li>अादिवासी रोजंदारीवरील कामगार, मन्धि भारताच्या —— समूहांमध्ये होतो.</li> </ol>	च्छमार, बांधकाम मजूर यांचा समावेश	
अ) पुढारलेल्या क) सत्ताधारी	ब) वंचित ड) यापैकी सर्व	
<ol> <li>प्रातिनिधिक लोकशाहीत —— प्रक्रिया अ) भ्रष्टाचार क) निवडणूक</li> </ol>	शासन आणि जनतेला जोडते. ब) हुकूमशाही ड) अर्थशास्त्र	
10. प्रत्यक्ष लोकशाही इसवी सन पूर्व तिस अ) भारत क) अथेन्स	न्या शतकात —— येथे सुरू झाली. ब) इंग्लंड ड) अमेरिकेची संयुक्त संस्थाने	
11. खालीलपैकी कोणता अधिकार भारतीय आहे? अ) शिक्षणाचा अधिकार क) संपत्तीचा अधिकार	राज्यघटनेमधील मूलभूत अधिकार ब) संप करण्याचा अधिकार ड) क्रांती करण्याचा अधिकार	
12.—— ही तळपातळीवरील संसदेची छो अ) लोकसभा क) ग्रामसभा	टी प्रतिकृती आहे. ब) विधानपरिषद ड) राज्यसभा	
13. सुशासनासाठी ——— हे आवश्यक आहे अ) केंद्रीकरण क) लोकसहभाग	इ. ब) खाजगीकरण ड) दंगा नियंत्रक पोलीस	
14.भारतीय मतदार ——– सदस्य प्रत्यक्षप अ) राज्यसभेचे क) विधान परिषदेचे	णे निवडतात. ब) लोकसभेचे ड) निवडणूक आयोगाचे	
15.73 वी आणि 74 वी घटना दुरूस्ती — अ) केंद्र क) राज्य	—— सरकारशी संबंधित आहेत. ब) राष्ट्रीय ड) स्थानिक	
16. लोकशाहीला घटनात्मक शासन असेही असा होतो. अ) शक्तीचे	ब) कायद्याचे	
क) सत्ताधारी शक्तीच्या लहरीप्रमाणे 17. सार्वजनिक उत्तरदायित्व म्हणजे प्रातिगि अ) विरोधी क) जबाबदार		
18. स्वातंत्र्य, समता आणि बंधुता ही ——— अ) जुन्या क) सामाजिक	,	

19. ज्या राजकीय प्रक्रियेद्वारे केंद्र सरकारकडून स्थानिक सरकारकडे प्रशासकीय अधिकार आणि जबाबदाऱ्या हस्तांतरित केल्या जातात त्याला ——— असे म्हणतात. अ) विकेंद्रिकरण ब) केंद्रीकरण ड) हस्तक्षेप क) हुकूमशाही 20. राजकारणाने गुन्हेगारीकरण हे भारतीय लोकशाहीपुढील मुख्य --- आहे. अ) गरज ब) आव्हान ड) देणगी क) पात्रता 21.भारतात राजकीय सहभागाच्या संधी --- मर्यादित असतात. अ) महिलांना ब) नेत्यांना क) श्रीमंत लोकांना ड) यापैकी नाही 22. लोकसभेत ——– सदस्य आहेत आणि ते प्रत्यक्ष पध्दतीने निवडले जातात. ब) 250 अ) 555 क) 288 ड) 543 23. सोलापूर शहर हे --- कार्यक्षेत्रात येते. अ) महानगरपालिकेच्या ब) ग्रामपंचायतीच्या क) नगरपरिषदेच्या ड) पंचायत समितीच्या 24. भारतातील स्थानिक स्वराज्य संस्थांमधील एक तृतीयांश जागा ---- राखीव असतात. अ) महिलांसाठी ब) मच्छिमारांसाठी क) स्थलांतरित मजुरांसाठी ड) बांधकाम मजुरांसाठी 25. महाराष्ट्र विधानसभेत --- सदस्य निवडून येतात. अ) 75 ब) 200 **ड) 388** क) 288 26. भारतातील शासन पध्दतीमध्ये --- स्तर आहेत. ब) तीन अ) चार क) दोन ड) पाच 27. उत्तरदायित्व आणि पारदर्शकता ही दोन तत्वे --- याच्याशी संबंधित आहेत. अ) वाईट शासन ब) जुने शासन क) झुंडशाही ड) सुशासन 28. भारतीय नागरिकांना माहितीच्या अधिकाराद्वारे ---- माहिती मागविता येते. अ) खाजगी कंपन्यांकडून ब) सरकारी अधिकाऱ्यांकडून क) बहुराष्ट्रीय कंपन्यांकडून ड) यापैकी सर्व 29. शिक्षणाच्या अधिकाराद्वारे राजसंस्थेने --- या वयोगटातील बालकांना शाळेत नाव नोंदविले आहे याची खात्री करून घेणे आवश्यक बनले आहे. अ) 6 ते 14 ब) 1 ते 5 क) 15 ते 20 ड) यापैकी नाही

30. महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार		
तरतुदींची अंमलबजावणी करण्यातील ए		
अ) माहितीचा अधिकार	ब) शिक्षण	
क) रोजगार	ड) स्वातंत्र्य	
31. महाराष्ट्रातील सदस्य प्रत्यक्ष लोव	गंकडून निवडले जातात.	
अ) विधानसभा	ब) राज्यसभा	
क) विधानपरिषद	ड) ग्रामसभा	
32 हे ग्रामीण स्थानिक स्वराज्य संस्थ	थेचे उदाहरण आहे.	
अ) ग्रामपंचायत	ब) पंचायत समिती	
क) जिल्हा परिषद	ड) यापैकी सर्व	
33. खेडयातील ग्रामसभेमध्ये समाविष	- असतात	
अ) सर्व नोंदणीकृत मतदार	- ·	
	ड) फक्त महिला मतदार	
, 34. समाजातील सर्व सदस्यांचा हे स्	·	
अ) असमान सहभाग	ब) हिंस्त्र सहभाग	
क) समान सहभाग	ड) यापैकी नाही	
	,	
<b>35.</b> भारतात माहितीचा अधिकार हा कायदा अ) 2005	•	
अ) 2005 क) 1950	ब) 1947 ड) 2020	
, , , , , , , , , , , , , , , , , , , ,	,	
36. खालीलपैकी कोणता अधिकार भारतात		
•	ब) संपत्तीचा अधिकार 	
क) समतेचा अधिकार	ड) धार्मिक स्वातंत्र्याचा अधिकार	
37.—— यांच्या मते लोकशाही म्हणजे लो राज्य होय.	कांचेच, लोकांनी केलेले, लोकांसाठी	
अ) जॉन वूड	ब) अब्राहाम लिंकन	
क) मदर तेरेसा	, ड) डोनाल्ड ट्रम्प	
, 38.—— लोकशाहीमध्ये नागरिक राज्यसंस्		
होते आणि नगर राज्यांच्या शासनात त्य		
अ) अप्रत्यक्ष	ब) प्रत्यक्ष	
क) भारतीय	ड) यापैकी नाही	
<b>39.</b> डेमोक्रसी (लोकशाही) हा इंग्लिश शब्द	डिमॉस आणि क्रॅटोस या ग्रीक	
शब्दांपासून तयार झाला. डिमॉस म्हणजे		
होय.		
अ) लोक आणि राज्य	ब) प्राणी आणि देव	
क) देव आणि संत	ड) यापैकी नाही	
40. सार्वजनिक कल्याण आणि पुनर्वाटप तर		
करण्याचे उद्देश असलेली पध्दत म्हणजे	च —— होय.	
अ) नोकरशाही	ब) महाजनशाही	
क) लोकशाही	ड) तंत्रशाही	

41. प्रत्यक्ष लोकशाहीलाच —— लोकशाई	असेही म्हणतात.	
अ) सहभागी	ब) प्रातिनिधीक	
क) नवीन	ड) नकारात्मक	
42. लोकशाहीमध्ये विधिमंडळ, मंत्रिमंडळ उ	गणि इतर समितीमधील प्रश्न	
सोडविण्यासाठी ——— हे तत्व वापरता	त.	
	ब) बहुमताचा नियम	
क) नेतृत्व	ड) हुकूमशाही	
43. डॉ.आंबेडकर यांनी लोकशाहीचा	पुरस्कार केला.	
अ) प्रत्यक्ष	ब) सामाजिक	
क) प्राचीन	ड) आधुनिक	
44. महाराष्ट्र गांधी राष्ट्रीय ग्रामीण रोजगाज उदाहरण आहे.	र हमी कायदा हे योजनेचे	
अ) राजकीय	ब) सामाजिक कल्याण	
क) लोकप्रिय	ड) निवडणूक	
45. खालीलपैकी कोणते लोकशाहीचे तत्व	नाही?	
अ) सहमतीने शासन	ब) सार्वजनिक उत्तरदायित्व	
क) कायद्याचे राज्य	ड) हुकूमशाही	
46. भारतात खुल्या आणि न्यायपूर्ण निवडप —— हे वर्ष अपवाद होते.	ाूक सातत्याने घेतल्या गेल्या. याला	
अ) 2014		
ब) 1976		
ब) 1976 क) 1967		
ब) 1976 क) 1967 ड) 2000		
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत.		
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी	ब) संसद	
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी क) राज्य सरकारे	ब) संसद ड) पंचायती राज्य संस्था	
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी क) राज्य सरकारे 48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात ज अर्थशास्त्राचा लेखक कोण?	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत.	
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी क) राज्य सरकारे 48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात ज अर्थशास्त्राचा लेखक कोण? अ) रामचंद्रन	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य	
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी क) राज्य सरकारे 48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात र अर्थशास्त्राचा लेखक कोण? अ) रामचंद्रन क) मंडन मिश्र	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास	
ब) 1976 क) 1967 ड) 2000 47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत. अ) जी.एस.टी क) राज्य सरकारे 48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात ज अर्थशास्त्राचा लेखक कोण? अ) रामचंद्रन क) मंडन मिश्र 49. स्वातंत्र्य, समता आणि बंधुता हा ———	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास राज्यक्रांतीचा नारा होता.	
<ul> <li>ब) 1976</li> <li>क) 1967</li> <li>ड) 2000</li> <li>47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत.</li> <li>अ) जी.एस.टी</li> <li>क) राज्य सरकारे</li> <li>48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात र अर्थशास्त्राचा लेखक कोण?</li> <li>अ) रामचंद्रन</li> <li>क) मंडन मिश्र</li> <li>49. स्वातंत्र्य, समता आणि बंधुता हा ——</li></ul>	ब) संसद ड) पंचायती राज्य संस्था मुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास राज्यक्रांतीचा नारा होता. ब) फ्रेंच	
<ul> <li>ब) 1976</li> <li>क) 1967</li> <li>ड) 2000</li> <li>47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत.</li> <li>अ) जी.एस.टी</li> <li>क) राज्य सरकारे</li> <li>48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात र अर्थशास्त्राचा लेखक कोण?</li> <li>अ) रामचंद्रन</li> <li>क) मंडन मिश्र</li> <li>49. स्वातंत्र्य, समता आणि बंधुता हा ——</li></ul>	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास राज्यक्रांतीचा नारा होता. ब) फ्रेंच ड) रशियन	
<ul> <li>ब) 1976</li> <li>क) 1967</li> <li>ड) 2000</li> <li>47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत.</li> <li>अ) जी.एस.टी</li> <li>क) राज्य सरकारे</li> <li>48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात र अर्थशास्त्राचा लेखक कोण?</li> <li>अ) रामचंद्रन</li> <li>क) मंडन मिश्र</li> <li>49. स्वातंत्र्य, समता आणि बंधुता हा ——</li></ul>	ब) संसद ड) पंचायती राज्य संस्था कुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास राज्यक्रांतीचा नारा होता. ब) फ्रेंच ड) रशियन उत्तरदायित्वाचे उदाहरण आहे.	
<ul> <li>ब) 1976</li> <li>क) 1967</li> <li>ड) 2000</li> <li>47. बलवंतराय मेहता आणि अशोक मेहता घटकाशी संबंधित आहेत.</li> <li>अ) जी.एस.टी</li> <li>क) राज्य सरकारे</li> <li>48. अर्थशास्त्र या प्राचीन भारतीय ग्रंथात र अर्थशास्त्राचा लेखक कोण?</li> <li>अ) रामचंद्रन</li> <li>क) मंडन मिश्र</li> <li>49. स्वातंत्र्य, समता आणि बंधुता हा ——</li></ul>	ब) संसद ड) पंचायती राज्य संस्था पुशासनाची तत्वे सांगितली आहेत. ब) कौटिल्य ड) कालिदास राज्यक्रांतीचा नारा होता. ब) फ्रेंच ड) रशियन	

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Seat No.	Marks Obtained	Signature of Examiner	Signature of Junior Supervisor	
B.Sc.	(Entrepreneurship) (Sen		Year) Examination:	
		Oct/Nov-2022 TONS AND GOOD GOV	ERNANCE	
	Date: Sunday, 12-02-2023 2:00 PM to 02:00 PM		Max. Marks: 50	
Instruc	tions: 1) All questions are con 2) Figures to the right ir			
	, , , , , , , , , , , , , , , , , , , ,		Answer	
	hoose the correct option and How many seats are reserve		vernment in	
- ,	Maharashtra?	· ·		
	a) 50% c) 25%	b) 33% d) 70%		
2)	·			
	a) Sunil Arora c) K. Unnikrishnan	b)Tamil Selvan d)Ramnath Ko		
3)	In India, Fundamental Rights	,		
	constitution. a) Part III			
	b) Amendment			
	c) Part 73 d) Summary			
4)	Indirect Democracy is also c			
	a) bad c) negative	b) representativ d) positive	e	
5)	If the fundamental rights in Ir		vidual or the	
	state, any citizen can move t a) Supreme Court & High C			
	b) Parliament c) Government			
	d) Gramsabha			
6)	Social democracy aims to pr			
	<ul><li>a) social justice</li><li>c) rich people</li></ul>	b) bureaucracy d) educated		
7	How many fundamental right		Constitution?	
	a) Six c) Ten	b) One d) Twelve		
8	8) Casual workers, Fisher folks, Construction labourers are considered			
	as sections in India. a) advanced	b) marginalized		
	c) ruling	d) all of these		

<b>9)</b> In representative democracy the proces government and the people.	s of	links the	
a) corruption c) election	,	dictatorship economics	
<ul><li><b>10)</b>Direct democracy was started in</li><li>a) India</li><li>c) Athens</li></ul>	b)	<sup>rd</sup> century B.C. England U.S.A.	
<b>11)</b> Which one of the following is the fundan constitution?	nent	al right in Indian	
<ul><li>a) Right to Education</li><li>c) Right to Property</li></ul>		Right to Strike Right to Revolt	
<ul> <li>12) is miniature of the Parliament of I</li> <li>a) Loksabha</li> <li>c) Gramsabha</li> </ul>	b)	a at the grassroots level. Vidhanparishad Rajysabha	
<ul> <li>13) is necessary for the good govern</li> <li>a) Centralization</li> <li>c) Public Participation</li> </ul>		e. Privatization Riot Control Police	
<ul><li>14) Indian voters directly elect the members</li><li>a) Rajysabha</li><li>c) Vidhan Parishad</li></ul>	b)	Loksabha Election Commission	
<b>15)</b> The 73 <sup>th</sup> and 74 <sup>th</sup> constitutional amendm government.	nent	s are related to the	
a) central c) state		national local	
<b>16)</b> Democracy is also considered as the comeans government by rather that		•	
<ul> <li>a) force</li> <li>c) whims and fancies of the ruler</li> </ul>	b)	law	
<b>17)</b> Public Accountability means the represented the people	enta	ative must remain to	
a) opposite c) answerable		irresponsible all of these	
<b>18)</b> Freedom, equality and fraternity are the democracy.	cor	e values of	
a) Old c) Social		Greek Foreign	
<ul> <li>19) The political process by which the admin responsibilities are transferred from cen government is known as</li> <li>a) Decentralization</li> <li>b) Centralization</li> <li>c) Dictatorship</li> <li>d) Interference</li> </ul>		2	
<b>20)</b> Criminalization of politics is the basic India.		before the democracy in	
a) need c) qualification		challenge boon	

21) The opportunities for political participation are minimal to in India			
a) women c) rich people	<ul><li>b) leaders</li><li>d) none of these</li></ul>		
<b>22)</b> Loksabha has members which a people.	re directly elected by the		
a) 555 c) 288	b) 250 d) 543		
	n of b) Village Panchayat d) Panchayat Samiti		
<ul><li>24) In the local governments of India one th for</li></ul>	, <b>.</b>		
a) women c) migrated workers	<ul><li>b) fisher folks</li><li>d) construction workers</li></ul>		
25)There are elected members in M			
a) 75 c) 288	b) 200 d) 388		
26) There are tiers of Indian governm			
a) Four c) Two	b) Three d) Five		
27) The principles of accountability and tran the	nsparency are related to		
<ul><li>a) bad governance</li><li>c) mobocracy</li></ul>	<ul><li>b) old governance</li><li>d) good governance</li></ul>		
<b>28)</b> Indians can seek information from under the Right to			
Information Act. a) private companies	b) government officials		
,	d) all of these		
<b>29)</b> The Right to Education makes it manda that all children of the age group	enroll themselves in schools.		
a) 6 to 14 c) 15 to 20	<ul><li>b) 1 to 5</li><li>d) none of these</li></ul>		
<b>30)</b> Mahatma Gandhi National Rural Emplo	,		
(MGNREGA) is one step towards imple	menting the provision of		
<ul><li>a) Right to Information</li><li>c) Right to Work</li></ul>	<ul><li>b) Right to Education</li><li>d) Right to Liberty</li></ul>		
<b>31)</b> The members of Maharashtra ar	, C		
people. a) Vidhansabha	b) Rajysabha		
c) Vidhan Parishad	d) Gramsabha		
32) is the example of rural local self	•		
a) Village Panchayat c) Zilla Parishad	<ul><li>b) Panchayat Samiti</li><li>d) All of these</li></ul>		
<b>33)</b> Gram Sabha comprised of in the village.			
a) all the registered voters	b) all the people		
c) only male voters	<ul> <li>d) only female voters</li> </ul>		

34) by all the members of society is t	the basic feature of good	
governance. a) Unequal participation c) Equal participation	<ul><li>b) violent participation</li><li>d) none of these</li></ul>	
<ul><li>35) The Right to Information was passed in</li><li>a) 2005</li><li>c) 1950</li></ul>	India in the year b) 1947 d) 2020	
<ul> <li>36)Which of the following is not the fundam</li> <li>a) Right to Freedom</li> <li>b) Right to Property</li> <li>c) Right to Equality</li> <li>d) Right to Freedom of Religion</li> </ul>	nental right?	
<ul> <li>37)According to Democracy is gove people and for the people</li> <li>a) John Wood</li> <li>c) Mother Teresa</li> </ul>	ernment of the people, by the b) Abraham Lincon d) Donald Trump	
<ul> <li>38)In democracy, citizens participate directly and had a say in the governance a) Indirect</li> <li>c) Indian</li> </ul>		
<ul> <li><b>39)</b>The word democracy is derived from the Kratos. The meaning of Demos is</li> <li>a) people and rule</li> <li>c) God and Saints</li> </ul>		
<ul> <li>40)A system of welfare and redistribution a inequalities is called</li> <li>a) Bureaucracy</li> <li>c) Democracy</li> </ul>	imed to narrow social b) Aristocracy d) Technocracy	
<ul> <li>41)Direct democracy is also known as</li> <li>a) Participatory</li> <li>c) New</li> </ul>	democracy. b) Representative d) Negative	
<ul><li>42) In democracy all issues in legislature, carcommittees are resolved through the print a) minority rule</li><li>c) leadership</li></ul>		
<ul><li>43)Dr. Babasaheb Ambedkar strongly advo a) Direct</li><li>c) Ancient</li></ul>	ocated democracy. b) Social d) Modern	
<ul> <li>44) The Mahatma Gandhi National Rural Er the example of the largest schema) political</li> <li>c) populist</li> </ul>		
<ul><li>45)Which among the following is not the pr</li><li>a) Government by consent</li><li>c) Rule of Law</li></ul>	inciple of democracy? b) Public Accountability d) Dictatorship	

<b>46)</b> The free and fair elections were conducted, at regular interval, in India except in			
a) 2014 b) 1976			
c) 1967 d) 2000			
47)Balwantrai Mehta and Ashok Mehta com India.	mittee are related to in		
<ul><li>a) G.S.T.</li><li>b) Parliament</li><li>c) State Governments</li></ul>			
d) Panchayati Raj institutions			
<b>48)</b> The ancient Indian book Arthshastra hig Governace. Who is the author of Arthsha	• • •		
a) Ramchandran c) Mandan Mishr	b) Kautilya d) Kalidas		
<b>49)</b> "Freedom, Equality and Fraternity" was the battlecry of the revolution.			
a) Indonesian c) American	b) French d) Russian		
<ul><li>50) The Right to is the example of transition</li><li>a) Information</li><li>c) Assembly</li></ul>	nsparency and accountability. b) Property d) Religion		

Seat No.		S	et P			
B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: Oct/Nov-2022						
	Environmental StudiesDay & Date: Sunday, 12-02-2023Max. Marks: 40Time: 03:00 PM To 05:00 PMMax. Marks: 40					
	) सर्व प्रश्न अनिवार्य आहेत. ) उजवीकडील अंक पूर्ण गुण दर्शवितात.					
प्र.1 खात 1)	/		08			
2)	, ——— येथे पहिली जागतिक पर्यावरण प अ) मुंबई	/				
3)		हे. ब) गवताळ प्रदेश ड) वाळवंटी				
4)		ब) सागरी लाटा ड) वारा				
5)		साली संमत झाला. ब) 1972 ड) 1976				
6)		येतात. ब) हवा ड) ध्वनी				
7)	भारतातील ——– हा प्रदेश जैवविविधतेने अ) पश्चिम हिमालय – अरवली क) पूर्व हिमालय – पश्चिम घाट ज्य	ब) अजिंठा – अरवली				
8)		दिन' साजरा केला जातो. ब) 16 जुलै ड) 16 सप्टेंबर				

Я.2	खालीलपैकी कोणत्याही चार प्रश्नांची थोडक्यात उत्तरे लिहा. अ) पर्यावरण अभ्यासाची व्याख्या लिहा. ब) वाळवंटी परिसंस्थेतील जैविक घटक क) नैसर्गिक साधनसंपत्तीचे प्रकार लिहा. ड) जैवविविधता संवर्धनाचे प्रकार लिहा. इ) वायु प्रदुषणाचे कारणे लिहा. ई) ओझोन क्षयाची कारणे लिहा.	08
प्र.3	खालीलपैकी कोणत्याही दोन प्रश्नांची उत्तरे लिहा. अ) पर्यावरण अभ्यासाचे महत्व लिहा. ब) परिसंस्थेतील ऊर्जाप्रवाह क) पूराची कारणे लिहा.	08
प्र.4	खालीलपैकी कोणत्याही दोन प्रश्नांची उत्तरे लिहा. अ) जल प्रदूषणाची कारणे व परिणाम स्पष्ट करा. ब) जैवविविधता म्हणजे काय? जैवविविधता प्रकाराचे वर्णन स्पष्ट करा. क) वन्यजीव संरक्षण कायदा स्पष्ट करा.	08
प्र.5	खालीलपैकी कोणत्याही एका प्रश्नाचे उत्तर लिहा. पर्यावरण अभ्यासाचे स्वरुप व व्याप्ती स्पष्ट करा. किंवा लोकसंख्या वाढीचा पर्यावरणावर होणारा परिणाम स्पष्ट करा.	08

Sea No.	t	Set I	Ρ	
B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: Oct/Nov-2022				
		Environmental Studies		
		re: Sunday, 12-02-2023 Max. Marks: 4 00 PM To 05:00 PM	10	
Instr	uctio	<ul><li><b>ns:</b> 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>		
Q.1	<b>Cho</b> 1)	oose the correct alternatives from the options.0The word 'Environment' is derived from language.a) Frenchb) Romanc) Latind) Greek	80	
	2)	First World Environmental conference was held at a) Mumbai		
	3)	Sahara is a example of ecosystem. a) Marine b) Glassland c) Forest d) Desert		
	4)	The primary source of energy is a) Hydal energy b) Tidals c) Sun d) Wind		
	5)	The 'Wildlife Protection Act' was passed in the year in India. a) 1971		
	6)	Marine life is in danger due to Pollution. a) Land b) Air c) Water d) Noise		
	7)	In India region is rich in biodiversity. a) Western Himalaya – Aravali b) Ajantha – Aravali c) Eastern Himalaya -Western Ghat d) Eastern Ghat – Koromandal		
	8)	International Ozone Day is celebrated on day. a) 16 <sup>th</sup> June b) 16 <sup>th</sup> July c) 16 <sup>th</sup> August d) 16 <sup>th</sup> September		
Q.2	Atte 1) 2) 3) 4) 5) 6)	empt any four of the following questions.CWrite a definition of environmental studies.Biological components of desert ecosystems.Write the types of natural resources.Write the types of biodiversity conservation.write the causes of air pollution.Write the causes of ozone depletion.	08	

Q.3	<ul> <li>Attempt any two of the following questions.</li> <li>1) Write the importance of environmental studies.</li> <li>2) Energy flow in the ecosystem</li> <li>3) Write down the reasons for the flood.</li> </ul>	08
Q.4	<ul> <li>Attempt any two of the following questions.</li> <li>1) Explain the causes and effects of water pollution.</li> <li>2) What is biodiversity? Explain the type of biodiversity.</li> <li>3) Explain the Wildlife Conservation Act.</li> </ul>	08
Q.5	<ul> <li>Attempt any one of the following questions.</li> <li>1) Explain the nature and scope of environmental studies.</li> <li>2) Explain the impact of population growth on the environment.</li> </ul>	08