Seat No.		Set	Ρ					
E	B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: March/April-2024 English (Comp.) Communication Skill (EN1101)							
	Day & Date: Friday, 05-04-2024 Max. Marks: 40 Time: 12:00 PM To 02:00 PM							
Instru	uctior	<ul><li>ns: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>						
Q.1	<b>Rew</b> 1)	rrite the following by choosing the correct options given below. The chairman wanted Mahatma Gandhi to give a speech on a) politics b) religion c) sports d) business	08					
	2)	was the nickname of Jadav Payeng. a) Majoli b) Molai c) Masala d) Malaya						
	3)	The grandmother of Khushwant Singh used to give stale to dogs. a) chapatis b) parottas c) puris d) dhoklas						
	4)	Rabindranath Tagore wanted in his life. a) luxuries b) temptations c) dangers d) victories						
	5)	Lotus is made of the qualities of the lily and the a) jasmine						
	6)	The father punished his son after he disobeyed him for the time. a) first b) third c) seventh d) tenth						
	7)	In the word 'shamelessness', '-less' is an example of a a) prefix						
	8)	'He was craving <u>for</u> success.' The underlined word in this sentence is a) noun b) adjective c) preposition d) verb						
Q.2	a) b) c) d) e)	wer the following questions briefly. (Any Four) Why did Mahatma Gandhi give importance to Khadi? How did the Majoli island lose its landmass? How did the grandmother of Khushwant Singh die? Why was Rabindranath Tagore interested in dangers? Describe the quarrel between the lily and the rose. Why did the father punish his son?	12					

Page 1 of 2

SLR-GC-1

**Q.3 a)** Bring out the process of communication by illuminating different constituents **10** of communication.

#### OR

- **b)** Elaborate different channels of communication.
- **Q.4** Write a detailed note on the intrapersonal skills.

	Principles of Entrepreneu	rship	(Paper - I) (EN1102)		
	ay & Date: Sunday, 12-05-2024 Max. Marks: 40 ime: 12:00 PM To 02:00 PM				
Instructi	<ul> <li>ons: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give</li> <li>3) Figures to the right indicate full</li> <li>4) Use of logarithmic tables and</li> </ul>	e equati ull mark	S.		
Q.1 Mu 1)	Itiple choice questions. An individual who initiates, creates called a) A leader c) An officer	b) d)	A manager An entrepreneur	08	
2)	The term 'Entrepreneur' was derive a) Enterpurpose c) Enterprocedure	ed from b) d)			
3)	<ul> <li>SIDBI stands for</li> <li>a) Small institutions development</li> <li>b) Small industries development</li> <li>c) Small industries derivatives bad</li> <li>d) Small industries development</li> </ul>	bank of ank of Ir	<sup>r</sup> India ndia		
4)	District Industries Centres are loca a) in each district c) only in selected districts	b)	 in each state only in selected states		
5)	NABARD was came into exist on _ a) 1982	b)	1985		

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

March/April-2024 

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b) DIC

d) 1995

d) None of the above

A is a voluntary association of women in rural or urban areas formed

- The basic purpose of \_\_\_\_\_ is to earn profit. 7)
  - a) NGOs b) Business
  - c) Government d) None of these
- 8) is barrier to entrepreneurship.

to take care of group welfare,

a) Lack of capital c) Undeveloped infrastructure

a) Self-Help Group

c) 1992

c) SIDCO

6)

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

Seat No.

		SLR-GC-2
Q.2	<ul> <li>Answer any Four of the following.</li> <li>a) Define Entrepreneurship</li> <li>b) Define Agricultural Entrepreneur.</li> <li>c) Define Innovation.</li> <li>d) Define Joint Stock Company.</li> <li>e) What is Economic Activity?</li> <li>f) What is Women entrepreneur?</li> </ul>	08
Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Characteristics of entrepreneurship</li> <li>b) Self Help Group.</li> <li>c) Indian Institute of Entrepreneurship (IIE).</li> <li>d) Managerial Vs. Entrepreneurial Approach.</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 SIDBI.</li> <li>c) Functions of DIC.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Explain importance of entrepreneurship.</li> <li>b) Explain need and problems faced by rural entrepreneurs.</li> </ul>	08

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Seat No.	t					Set P	
	B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: March/April - 2024						
	Fu	ndan	nental of Ec	•		ntancy (Paper - II) (EN1103)	
Day 8			ednesday, 10-		locou	Max. Marks: 40	1
			/ To 02:00 PM			Max. Market 40	
Instr	ucti	ons:1	) All questions	are compulsory.			
		2	) Figures to th	e right indicate full	marks.		
Q.1			choice quest			08	6
	1)		e case of perfe vertical	ect elasticity, the de			
		a) C)			b) d)	horizontal steep	
	2)	,		nics is	,	•	
	,		•	micro aspects	b)	Only a normative science	
		c)	Deals with pr	actical aspects	d)	All of the above	
	3)			ect elasticity, the de			
		a) c)	vertical flat		,	horizontal steep	
	4)	,		n is characterized b	,	•	
	-,	a)	large numbe	r of buyers and sell			
		b)	homogeneou free entry an	-			
			all the above				
	5)					nanded of a commodity in response	
			• ·	ice of another relat		modity is called Related elasticity	
		а) С)		-		Income elasticity	
	6)	The	main Purpose	of Financial Accou	inting is		
		a)	•	nancial information	to shar	reholders	
		b) c)	To maintain I To minimize	palance sheet taxes			
		d)	To keep trac				
	7)					cash within a short period, i.e.,	
			ar or less are Current asse	nown as	b)	Fixed assets	
		c)	Intangible as		d)	Investments	
	8)	Basi	c assumptions	of law of demand	include		
		a)		er goods should ch	-	na a ditu	
		b) c)		l be substitute for tl lity should not conf		•	
		d)		for the commodity			

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

- a) Define Book Keeping.
- b) Define Accounting terminologies.
- c) Define Price Elasticity.
- d) Define Imperfect competition.
- e) Define Business Economics.
- f) Define Demand.

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

- a) Describe types of Income Elasticity Demand.
- b) Describe perfect Competition market.
- c) Jeyaseeli is a sole proprietor having a provisions store. Following are the transactions during the month of January, 2018. Journalise them. Jan. Rs.

- 1 Commenced business with cash 80,000
- 2 Deposited cash with bank 40,000
- 3 Purchased goods by paying cash 5,000
- 4 Purchased goods from Lipton & Co. on credit 10,000
- 5 Sold goods to Joy and received cash 11,000
- 6 Paid salaries by cash 5,000
- 7 Paid Lipton & Co. by cheque for the purchases made on 4th Jan.
- 8 Bought furniture by cash 4,000
- 9 Paid electricity charges by cash 1,000
- 10 Bank paid insurance premium on furniture as per standing instructions 300

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

- a) Describe types of Price Elasticity Demand.
- b) Define concept of Demand and its Law of Demand.
- c) Arun is a trader dealing in automobiles. For the following transactions, pass journal entries for the month of January, 2018.

Jan.

- 1 Commenced business with cash Rs. 90,000
- 2 Purchased goods from X and Co. on credit Rs. 40,000
- 3 Accepted bill drawn by X and Co. Rs. 20,000
- 4 Sold goods to D and Co. on credit Rs. 10,000
- 5 Paid by cash the bill drawn by X and Co. Rs. 20000
- 6 Received cheque from D and Co. in full settlement and deposited the same in bank Rs. 9,000
- 7 Commission received in cash Rs. 5,000
- 8 Goods costing Rs. 40,000 was sold and cash received Rs. 50,000
- 9 Salaries paid in cash Rs. 4,000
- Building purchased from Kumar and Co. for Rs. 1,00,000 and an 10 advance of Rs. 20,000 is given in cash.

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**08** 

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

- a) Define Nature & scope of accounting.
- **b**) From the following balances obtained from the books of Siva, prepare trading and profit and loss account.

Particulars	₹	Particulars	₹
Stock on 01.01.2016	9,000	Bad debts	1,200
Purchases	22,000	Sundry expenses	1,800
Sales	42,000	Discount allowed	1,700
Expenses on purchases	1,500	Expenses on sale	1,000
Bank charges paid	3,500	Repairs on office furniture	600

Adjustments:

- 1) Closing stock on, 31st December, 2016 was Rs. 4,500
- 2) Manager is entitled to receive commission @ 5% of net profit after providing such commission.

		SLK-GC	-4
Seat No.		Set	Ρ
E	8.S(	c. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: March/April-2024 Fundamentals of Inorganic Chemistry (Paper - I) (EN1104)	
		ate: Friday, 12-04-2024 Max. Marks: 2:00 PM To 02:00 PM	40
Instru	ucti	<ul> <li>ions: 1) All questions are compulsory.</li> <li>2) Draw neat diagrams and give equations whenever necessary.</li> <li>3) Figures to the right indicate full marks.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> </ul>	
Q.1		Itiple choice questions.         Lateral overlap of p-orbital leads to the formation of         a) Π bond       b) metallic bond         c) σ bond       d) ionic bond	80
	2)	Hydrogen bond is than Van der Waals force. a) highly polar b) weaker c) stronger d) all of these	
	3)	In Born Hyber cycle law is used to evaluate the lattice energy. a) K. Fajans b) Boyels c) Charles d) Hess	
	4)	Sodium chloride is having stoichiometry.a) 1:2b) 2:1c) 2:3d) 1:1	
	5)	The co ordination number of ion in CsCl is a) 8 b) 6 c) 5 d) 4	
	6)	The number of unpaired electron possessed by an atom determines itsa) bond lengthb) Valancyc) bond angled) none of these	
	7)	The O <sub>2</sub> molecule is paramagnetic. It is explained on the basis of a) hybridisation b) VBT c) MOT d) VSEPR	
	8)	The limiting radius ratio for cubic geometry is a) 1.00 b) 0.732 to 1.00 c) 0.414 to 0.732 d) $\leq 0.155$	
Q.2	An a) b) c) d) e)	Define covalent bond with example. Define the term lattice energy. Define radius ratio and how it is represented? Explain S-S orbital overlap. Write any two characteristics of ionic compound.	08

# Seat No.

- e) f) Write any two characteristics of ionic compound.
  - Define bonding molecular orbital.

Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Molecular orbital</li> <li>b) Postulates of VSEPR theory</li> <li>c) Formation of ionic bond</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Explain the Born Haber cycle for NaCl.</li> <li>b) Draw the molecular diagram of oxygen molecule.</li> <li>c) Explain the ionization potential.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Explain the radius ratio and its effect with respect to octahedral geometry.</li> <li>b) Explain the formation of methane molecule on the basis of hybridization concept.</li> </ul>	08

No.		Set	Ρ			
В	B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination:					
		March/April-2024 Fundamentals of Organic Chemistry (Paper - II) (EN1105)				
		te: Saturday, 13-04-2024 Max. Marks 00 PM To 02:00 PM	s: 40			
Instru	uctio	<ul> <li>ons: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat diagrams and give equations wherever necessary.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> </ul>				
Q.1	Mul	tiple choice questions.	08			
	1)	Aromaticity is explained by the rule,.a) Hund's ruleb) Hukel's rulec) phase ruled) none of these				
	2)	Wurtz reaction is used for the preparation of a) alcohol b) diene c) alkane d) ether				
	3)	Benzene contains how many π electrons? a) 3 b) 0 c) 6 d) none of these				
	4)	In Lassaigne's test, the purpose of fusing an organic compound with sodium metal is to convert the organic compound into a) ionic compound b) covalent compound c) complex d) None of these				
	5)	Chloration of methane in presence of diffused sunlight occurs by mechanism. a) carbocation b) carbanion c) free radical d) any of these				
	6)	Combustion test is used for the detection of a) sulphur b) nitrogen c) halogen d) carbon				
	7)	$ \begin{array}{ll} \mbox{Which of the following is the general formula of alkene?} \\ \mbox{a)} & C_n H_{2n+2} & \mbox{b)} & C_n H_{2n} \\ \mbox{c)} & C_n H_{2n-2} & \mbox{d)} & \mbox{None of these} \\ \end{array} $				
	8)	Identify the one which is the perfect example for Isolated double bond?a) 1,2 pentadieneb) 1,3 pentadienec) 1,4 pentadiened) 1,5 pentadiene				
	Ans a) b) c) d) e) f)	wer any four of the following. How will you prepare ethane and propane from Wurtz reaction. What are alkynes? How are they named? Define molecular formula and empirical formula. What are dienes? Gives their general formula. How will alkyl halide prepared from alkene? How carbon and hydrogen are detected in an organic compound detected?	08			

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Q.3	Writ a) b) c) d)	<b>e short notes on any two.</b> Dehydration of alcohol Polymerization of alkynes Kekule's structure of benzene Quantitive analysis of Carius methods	08
Q.4	a)	<b>wer any two of the following.</b> How will you detect nitrogen by Kjeldahal's method? Explain the acidity of alkynes. Explain dehydrohalogenation of alkyl halide.	08
Q.5	Ans a) b)	<b>wer any one of the following.</b> Describe the various types of dienes and illustrate the reaction of 1,3 - butadiene. Explain the mechanism involved in the halogenation of alkane.	08

No.			•••	•		
E	B.Sc. (Entrepreneurship) (Semester - I) (New) (CBCS) Examination: March/April-2024					
		Fundamentals of Microbiology (Paper - I) (EN1106	)			
			, Max. Marks:	40		
Instr	uctio	<b>ns:</b> 1) All questions are compulsory.				
		<ul><li>2) Figures to the right indicate full marks.</li><li>3) Draw neat labeled diagrams wherever necessary.</li></ul>				
Q.1		ose the correct alternative and rewrite the sentences again.		80		
	1)	is the father of antiseptic surgery. a) Joseph Lister b) Robert Koch c) Louis Pasteur d) None of above				
	2)	The process of killing all microorganisms along with their spores isa) Sanitationb) Sterilizationc) Antisepsisd) Diainfection	·			
	3)	Lag phase is also known asa) period of initial adjustmentb) transitional periodc) generation timed) period of rapid growth	١			
	4)	of the following is best method to sterilize heat labile solutiona) Autoclaveb) Membrane filtrationc) Dry heatd) Pasteurization	ons.			
	5)	are microscopic hair-like structures involved in the locomota) Flagellab) Ribosomesc) Cell walld) Cell Membrane	on of a cell.			
	6)	The cell reproduction in bacteria may occur by a) binary fission b) mitosis c) budding d) meosis				
	7)	is the orderly arrangement of living things into groups on th	ie basis			
		of their similarities.				
		a) Identification b) Classification				
	•	c) Growth d) Pure culture				
	8)	are very small, multi-shaped bacteria lacking a true cell wa a) Bacteria b) Viruses	1.			
		c) Mycoplasma d) Algae				
Q.2	Ans a)	wer any four of the following. Louis Pasteur contribution		08		
	b)	Characteristics of Virus Archaebacteria				
	c) d)	Germ theory of disease				
	e)	Autotroph				
	f)	Sterilization				

Q.3	a) b)	<b>e short notes on any two of the following.</b> Explain in brief contributions of Anton von Leeuwenhoek. Describe in brief Binomial Nomenclature. Write difference between prokaryotic and eukaryotic microorganisms.	08
Q.4	a) b)	<b>wer any two of the following.</b> Explain in detail Cell wall composition of Gram-positive cell wall. Describe in details Microbial growth in response to environment. Explain in detail general characteristics of Fungi.	08
Q.5	a)	<b>wer any one of the following.</b> Explain in detail microbial growth in response to nutrition and energy. Describe in detail physical agents of sterilization.	08

No.		<b>.</b>
E	3.Sc. (Entrepreneurship) (Semester - I) March/April-2 Basic Techniques in Microbiolog	024
	Date: Tuesday, 16-04-2024 12:00 PM To 02:00 PM	Max. Marks
Instru	<b>Ictions:</b> 1) All questions are compulsory. 2) Figures to the right indicate full mark 3) Draw neat labeled diagrams wherev	
	<ul><li>Choose the correct alternatives.</li><li>1) The source of electron in electron microsco</li></ul>	ope consists

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- electron in electron microscope consists \_ IJ
  - a) Gold b) Tungsten d) Silver
  - c) Mercury
- 2) Capsule staining is carried out by \_\_\_\_\_ method.
  - a) Manvel's b) Chances c) Dorner d) Albert
- 3) The chemical agent which is applied to living tissue to kill or inhibit the growth of microorganisms is known as \_\_\_\_\_
  - a) Disinfection
  - c) Germicide d) Antiseptic
- The ability of lens to distinguish or separate of two objects or points from 4) each other is known as \_\_\_\_\_.
  - a) Resolution
  - c) Reflection
- is used for sterilization of heat labile Microbial laboratory media. 5) \_ b) Hot air Oven
  - a) Autoclaving c) Filtration
- d) Chemical agents

d) Safranin

b) Refraction

d) Rarefaction

b)

Sterilization

used as decolorizing agent in gram staining. 6) b) 95% Alcohol

- a) ZNCF
- c) Crystal Violet
- is the gaseous agent used in the form of sterilization of instruments 7) and rooms.
  - a) Mercury

c) Formaldehyde

- b) Incinerator d) Phenol
- used as selective decolorizing agent in cell wall staining by chances 8) method.
  - a) 0.5% Cango red
  - c) 0.5% New fuchsin

- b) 95% Alcohol
- d) 10% Nigrosine

Max. Marks: 40

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#### Q.2 Define any four of the following.

- a) Define cold sterilization.
- **b)** Define stain and enlist types of stain.
- c) What is Numerical aperture?
- **d)** Define disinfection.
- e) Role of eye piece.
- f) What are the practical applications of sterilization by halogens?

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

- a) Give a detailed account on principle and mechanism of capsule staining.
- **b)** Describe in detail principle, construction and working of autoclaving.
- c) Describe in brief mechanism Negative staining.

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

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

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

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

March/April-2024								
	Cell Biology (Paper - I) (EN1108)							
			nursday, 18-04-2024 / To 02:00 PM		Max. Mark	s: 40		
Instr	ucti		<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full</li> <li>Draw neat &amp; well labeled diagra</li> </ol>					
<ul> <li>Q.1 Multiple Choice Questions.</li> <li>1) Chemicals, that can induce cancer are called</li> <li>a) carcinogens and produce malignant tumour</li> <li>b) carcinogens and produce non-malignant tumour</li> <li>c) mutagenic agents and do not produce malignant tumour</li> <li>d) mutagenic agents and produce benign tumour</li> </ul>					08			
	2)	a) b) c)	r mitochondrial membrane has cytochrome oxidase complex b-c 1 complex NADH dehydrogenase complex all of the above					
	3)	,	_ cell organelle does not contain Nucleus Lysosomes	DNA b) d)				
	4)	a) c)	_ is the study of, its type, structur Cell biology Microbiology	e, fu b) d)	-			
	5)	a) c)	_ Cell organelle absent in prokary Nucleus Endoplasmic reticulum	b)	Lysosome			
	6)	a)	meiotic division is takes place in _ Meristematic cells Reproductive cells	b) d)	 Conductive cells Vegetative cells			
	7)	Meio of a) b) c) d)	Separation of chromatids Crossing over	hron				
	8)	a) c)	_ scientists proposed the fluid mo Schleiden and Schwann Singer and Nicholson		model of the cell membrane. Hershey and Chase Watson and Crick			

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

SLR-GC-8

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Seat No.

<ul> <li>a) Define Cell membrane.</li> <li>b) Define Metaphase.</li> <li>c) Define Microtubule.</li> <li>d) Two examples of Prokaryotic cell</li> <li>e) Define Nucleus.</li> </ul>	00
<ul> <li>c) Define Microtubule.</li> <li>d) Two examples of Prokaryotic cell</li> </ul>	00
d) Two examples of Prokaryotic cell	00
	0.0
e) Define Nucleus	00
	00
f) Sarcoma	00
Q.3 Write short notes any two of the following.	80
a) Fluid mosaic model	
b) Schematic representation of Animal cell	
c) Explain structure and function of Endoplasmic reticulum.	
Q.4 Answer any two of the following.	08
a) Schematic representation of Mitochondria	
b) Write note on Chemical component of biological membrane.	
c) Difference between Mitosis and Meiosis.	
Q.5 Answer any one of the following.	08
a) Describe in detail characteristics of cancer and its type.	
b) Explain in detail Eukaryotic cell with its example.	

March/April 2024								
	Animal and Plant Physiology (Paper – II) (EN1109)							
		ate: Fr	iday, 19-04-2024 / To 02:00 PM			• • • •	Max. Marks: 40	
Instr	ucti		<ul><li>Figures to the ri</li><li>Use of logarithm</li></ul>	ams and give eq ght indicate full n nic table and calc	nark ulat		1.	
Q.1	Ch	oose	the correct alterr	native and rewrit	te th	ne following sentence	s. 08	
	1)		hormone gastrin is Intestine Stomach	s secreted by	b) d)	Liver Pancreas		
	2)		_ are the neurons	carrying impulse	es a	way from the central ne	ervous	
		syste a) c)	em. Efferent nerves Extensors			Afferent nerves Sensory nerves		
	3)		ratio of basophils t 1:4 2:1	to eosinophils is <sub>.</sub>	b) d)	4:1 1:2		
	4)		es associated with Hard fibres Surface fibres	phloem are	b) d)	Wood fibres Bastfibres		
	5)		gen fixation is the N² to NO3 <sup></sup> N² to NH3	conversion of	b) d)	N₂ to N N₂ to urea		
	6)	a)	_ is a gaseous pla Abscisic acid IBA	ant hormone.		Ethylene NAA		
	7)	The a) c)	tiny air sacs prese Alveoli Bronchioles	nt in human lung	s is b) d)	called Bronchus All of the above		
	8)		is not a function o gluconeogenesis		b)	lipogenesis		

### Seat No.

Set Ρ

a) gluconeogenesis

- c) glycogenesis
- Q.2 Answer any four of the following:
  - a) Define Plasma proteins.
  - **b)** Explain gastric and intestinal juice.
  - c) What is hypo & hyper-secretions?
  - d) Explain primary structure of shoot.
  - e) Define nitrate reduction.
  - Discuss phases of growth. **f**)

08

decreasing glycogenolysis

d)

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

### 08

- Q.3 Write short notes on any two of the following. a) What is Transpiration and explain mechanism of opening and closing of stomata. b) Discuss in detail about plant growth hormones (Auxin and gibberlins). c) Define Respiration and explain Transport of O<sub>2</sub> and CO<sub>2</sub>. Q.4 Answer any two of the following.
  - a) Add a note on Mechanism of digestion & absorption.
  - b) Define Diffusion and explain Plant water relations.
  - c) Explain inorganic & molecular nitrogen fixation.

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

- a) Define Photophosphorylation and add a note on Calvin cycle.
- b) Define Circulation and add a note on Mechanism of working of heart.

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Seat No.						Set	Ρ
B	s.Sc	c. (Entrepreneu	March/	April-20 SH (Con	ıp.)	xamination:	
		ate: Friday, 10-05- 00 AM To 11:00 /	2024			Max. Marks	: 40
Instru	uctio	ons: 1) All questic 2) Figures to	ons are compulso the right indicate	•	S.		
Q.1		oose the correct What did the fan a) Education c) Science		uffon write b)			08
	2)	In the age of mo interests? a) The people c) The king		manipula b) d)	ted to achieve their of The ministers The courtiers	own personal	
	3)	Who wrote the p a) Alexander c) Niyi Osuno	Pope		e"? William Wordswortl William Shakespea		
	4)	Who is the poet a) Her Family c) Her Reade	/	nember" a b) d)	ddressing to? Her friends Her Lover		
	5)	Write synonyms a) Big c) Heavy	of the word – Lar	•	Small Blowing		
	6)	Write antonyms a) Brave c) Heavy	of the word – Fre	edom. b) d)	Captivity Charming		
	7)	Write antonyms a) Useful c) Charming	of the word – Bea	autiful. b) d)	Small Ugly		
	8)	Identify tense of 'He is reading a a) simple ser c) Past tense	itence	tence. b) d)	present continuous present perfect ten		

#### Q.2 Write the answer in short. (Any Four)

- a) What is difference between being original and being right according to Russel?
- **b)** What is the true sense of freedom?
- c) Discuss the theme of the poem "Our Earth Will Not Die"
- d) What picture of a farmer does Pope present in the poem?
- e) Who is happy man according to Alexander Pope?
- What are Rossetti's thoughts about remembering the dead persons? f)

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

- a) You are writing to a person called Ankit Malhotra who is the manager at Winters & Wools. You want to complaint about the winter jacket you bought. The colour has faded away after one wash. Write a letter to Ankit Malhotra, The Manager, Winter & Wools, 49, Phoenix Market City, F, 92, LBS Road, Pune, Maharashtra- 400070.
- **b)** Write a formal letter to the principal regarding leaving the school and asking for Transfer Certificate.
- Q.4 State three (For each) such situations from your personal life when you 10 have felt following emotions.
  - **a)** Mad
  - b) Gland
  - c) Sad

Time	e: 09:0	0 AM	To 11:00 AM		
Inst	ructio	2) 3)	All questions are compulsory. Figures to the right indicate full n Draw neat labeled diagrams and Use of logarithmic table and calc	l give	equations wherever necessa
Q.1	Cho	ose tl	he correct alternatives from the	e opti	ons.
	1)	Man a) c)	agement Accounting deals with v Qualitative Both	what k b) d)	kind of information Quantitative None of these
	2)	a) b)	Centre is A Meeting Place of DSA Data Centre A Meeting place for Customer A back office setup where custo	omer (	Queries are answer
	3)	Man a) c)	agement Accounting help manag Preparation of Final Account Filling Tax return		
	4)	Who a) c)	o is the father of Modern Marketin Philip Kotler Abraham Maslow	•	Peter F Drucker Raymand Krock
	5)	А М а) с)	ajor objective of any marketing a Sell Create	ctivity b) d)	is to? Promote Increase awareness
	6)	Goo a) c)	d marketing is a result of careful Research Execution	plann b) d)	ing & Sales Strategies
	7)	a)	ch of the following is also called a Self Service Store Hyper Market	b)	

Seat No.

> B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024

Entrepreneurship Science (Paper – III)

Fundamental of Marketing & Management accounting (EN1202)

Day & Date: Saturday, 11-05-2024 Time: 09:00 AM To 11:00 AM

- Hyper Market All of the above d) C)
- 8) "Many people want BMW, only few are able to buy" this is an Example of .
  - Want Need a) b)
  - c) Demand d) Status

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

- **Define Marketing?** a)
- What is mean by Segmentation? b)
- Define Ratio Analysis? C)
- **Define Capital?** d)
- What is Accounting e)

Ρ Set

SLR-GC-11



80

Max. Marks: 40

Q.3	<ul> <li>Write short notes any two of the following.</li> <li>a) Selling Vs Marketing</li> <li>b) Advantage of Market Segmentation</li> <li>c) Objective of Management Accounting</li> </ul>	08
Q.4	<ul> <li>Answer any two of the following.</li> <li>a) Write down Feature of E-Marketing.</li> <li>b) Write down Classification of Working Capital.</li> <li>c) Write down Financial Statement Analysis.</li> </ul>	08
Q.5	<ul> <li>Answer any one of the following.</li> <li>a) Explain the Types and Scope of Marketing.</li> <li>b) What is Working Capital? Write down problem of Working Capital.</li> </ul>	08

Seat					
No.					
	_				

#### B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024 **ENTREPRENEURSHIP SCIENCE (Paper - IV) Cost Accounting and Project Management (EN1203)**

Day & Date: Monday, 13-05-2024 Time: 09:00 AM To 11:00 AM

#### 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.

- Prime cost is 1)
  - a) The total of direct cost b) The total of indirect cost
  - The material cost of a product d) The labour cost of a product c)
- Cost accounting discloses \_\_\_\_\_. 2)
  - The Financial position a)
  - Tax amount c)

- b) profit/loss of a product or job
   d) Dividend amount
  - d) Dividend amount
- Director's remuneration is a part of \_\_\_\_\_. 3)
  - works on cost a)
  - distribution overhead c)
- b) selling overhead d) administrative overhead

b) Machinery

d) All of the above

- A document which provides for the detailed cost center and cost unit is . 4)
  - b) Cost sheet d) Profit statement
  - Invoice
- A project is a sequence of \_\_\_\_\_ activities. 5)
  - a) Unique

a)

c)

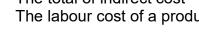
Tender

- b) Complex Connected d) All the above c)
- Resources refer to \_\_\_\_\_. 6)
  - Manpower a)
  - Materials c)
- 7)
- Project performance consists of \_\_\_\_\_. b) Cost
  - d) All the above Quality c)
- Project management is helpful to \_\_\_\_\_. 8) b) Businesses
  - a) Individuals
  - c) Government d) All the above

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

- Define Cost. a)
- b) Define fixed cost.
- What do you mean by project? C)
- What do you mean by project manager? d)
- What is project report? e)

08



SLR-GC-12

Max. Marks: 40



Q.3	Wri a) b) c)	<b>te short notes on any two of the following.</b> Elements of Cost. Characteristics of Project. Project Life Cycle.	0
Q.4	Ans	swer any Two of the following.	0
	a)	The following expenses are related to the product 'A' during the month of	
		Aug. 2013:	
		Direct materials Rs. 12,000	
		Direct Wages Rs. 10,000	
		Factory rent Rs. 1,000	
		Depreciation on machinery Rs. 1,000	
		Office salary Rs.2,000	
		Office expenses Rs. 1,500	
		Indirect labour Rs. 500	
		Printing and stationary Rs. 500	
		Selling expenses Rs. 2,500	

Prepare Cost Sheet.

- **b)** Discuss Types of Project.
- c) Roles and responsibilities of project manager.

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

- a) Explain methods of Costing.
- b) What is project report? Explain contents of project report.

08

80

E	B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024 INDUSTRIAL CHEMISTRY (Paper - III)							
Dav	Fundamentals of Physical Chemistry (EN1204)Day & Date: Tuesday, 14-05-2024Max. Marks: 40							
		00 AM To 11:00 AM						
Instr	<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. (At. Wts H=1, C=12, 0=16, N= 14, Na=23, CI=35.5)</li> </ul>							
Q.1	Mul 1)	tiple choice questions.08The photochemical reaction between H2 and Cl2 is an example of order.order.a) zerob) firstc) secondd) third						
	2)	a) dyne cm       b) dyne cm <sup>-1</sup> c) dyne <sup>-1</sup> cm       d) none of these						
	3)	Joule- Thomson expansion of an ideal gas produces a) heating b) cooling c) no change in temperature d) none of these						
	4)	The compressibility factor Z for an ideal gas is a) zero b) less than one c) greater than one d) equal to one						
<ul> <li>5) Rate of reaction</li> <li>a) increases with increase in temperature</li> <li>b) decrease with increase in temperature</li> <li>c) is independent on temperature</li> <li>d) is independent of concentration</li> </ul>								
<ul> <li>6) The temperature at which a real gas obeys the ideal gas behaviour of wide range of pressure is</li> <li>a) critical temperature b) Boyle's temperature</li> <li>c) reduced temperature d) inversion temperature</li> </ul>								
	7)	A + B → Product is reaction.a) unimolecularb) bimolecularc) termoleculard) tetramolecular						
	8)	The unit of second order rate constant are a) mole dm <sup>-3</sup> s <sup>-1</sup> b) s <sup>-1</sup> c) dm <sup>3</sup> mole-1 s <sup>-1</sup> d) s <sup>+1</sup>						

Seat

No.

SLR-GC-13

Set P

		SLR-GC-13
Q.2	<ul> <li>Answer any four of the following.</li> <li>a) Name the factors affecting on rate of reaction.</li> <li>b) Define ideal and non ideal gas.</li> <li>c) Write the Macleod equation for parachor.</li> <li>d) What do you mean by continuity of state?</li> <li>e) What are the advantages of stalagmometer or drop-pipette?</li> <li>f) What is half life period reaction of a reaction.</li> </ul>	08
Q.3	<ul> <li>Write short notes on any two of the following.</li> <li>a) Order and molecularity of chemical reaction.</li> <li>b) Joule-Thomson effect.</li> <li>c) Liquefaction of gases.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Explain the term parachor.</li> <li>b) Explain qseudo - unimolecular with its example.</li> <li>c) Explain in detail Joule Thomson effect.</li> </ul>	08
Q.5	<ul> <li>Answer any one of the following.</li> <li>a) What is Macleod's equation? Give its modification by Sugder</li> <li>b) Determine the rate constant for second order reaction with used or the second or the se</li></ul>	

concentration of reactant.

B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024

**INDUSTRIAL CHEMISTRY (Paper – IV) Fundamentals of Analytical Chemistry (EN1205)** 

Day & Date: Wednesday, 15-05-2024 Time: 09:00 AM To 11:00 AM

Seat

No.

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 logarithmic table and calculator is allowed.
  - (At.Wts.: H=1, C=12, 0=16, N=14, Na=23, CI=35.5)

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

- The lowest temperature at which the oil gives enough vapour is known 1) as .
  - a) flash point b) cloud point
    - d) fire point c) pour point
- 2) The polymer which on starching undergo elongation and when force is removed it regain its original position are known as

b)

b) thermosetting

desalination

b) combustion

- a) thermoplastic
- d) None of these c) elastomers
- The process of removing extra common salt from the water is known 3)
  - as .
    - a) purification
    - c) disinfection d) distillation
- The amount of heat liberated by complete combustion of unit quantity of 4) fuel is known as \_\_\_\_\_.
  - a) agitation
  - c) thermogenesis d) calorific value
- 5) Chloroprene is a monomer of \_\_\_\_\_.
  - b) Buna-S a) Natural rubber
    - c) Buna-N d) synthetic rubber
- Among the following which is synthetic polymer? 6)
  - a) starch b) silk
  - c) polythene d) wool
- Petroleum mainly contains \_\_\_\_\_. 7)
  - a) aromatic hydrocarbon b) cycloalkane
  - c) inorganic hydrocarbon d) aliphatic compounds
- The percentage of fat in buffalo milk is 8)
  - a) 3.0 6.6 b) c) 1.0 d) 10.0

SLR-GC-14

Set

Max. Marks: 40

Q.2	An a) b) c) d) e) f)	swer Any Four of the following. Define calorific value and heating value. Define elastomer with example. Write any four qualities of ideal drug. Distinguish between thermoplastic and thermosetting polymer. What is mean by soft water and hard water. Define milk. Give the chemical composition of milk.	08
Q.3	Wr a) b) c)	<b>ite short notes on any Two of the following.</b> Vulcanisation Role of magnesium hydroxide as a antacid Types of fuels.	08
Q.4	An a) b) c)	swer any Two of the following. What are the types of water? Explain the term fresh water. Explain essential nutrients of plants with their classification. What is refining? Give the different constituent obtained from refining of petroleum.	08
Q.5	An a)	<b>swer any One of the following</b> What are polymers? Explain various types of polymers with suitable example.	08

**b)** What is mean by cracking and hydroforming?

				-		
Sea	t				Set	Ρ
No.						
	B.Sc	. (Entrepreneurship) (Semeste			mination:	
		INDUSTRIAL MICE			•	
-		Fundamentals of Industria		robiology (EN1206	-	40
		e: Thursday, 16-05-2024 )0 AM To 11:00 AM			Max. Marks	: 40
Instr	uctio	<ul> <li>ns: 1) All questions are compulsory.</li> <li>2) Draw neat labeled diagrams wh</li> <li>3) Figures to the right indicate full</li> </ul>		•		
Q.1	Cho	ose the correct alternative and rewr	rite th	e sentences again.		08
	1)	The capacity of pilot plant fermenter		Liters.		
		a) 1-2 c) 100-500	b) d)	1000 100000		
	2)	are used in the fermenter to a	,			
	2)	a) Sparger	b)	Agitator		
		c) Rotor with motor	d)	Baffles		
	3)	indicators are used in primary	scree	ening of organic acid pr	oducing	
		organisms.			U U	
		a) Gas	b) d)	Temperature All of these		
	4)	c) pH	,			
	4)	<ul> <li>is an example of inert antifoar</li> <li>a) Silicon compounds</li> </ul>	n age b)	Lard Oil		
		c) Soap	d)	vegetable oil		
	5)	is the waste produced from pa	aper a	ind pulp industry.		
		a) Sulphite Waste liquor	b)	Com steep liquor		
		c) Molasses	d)	None of the these		
	6)	is not a method of strain impro				
		a) Recombination c) Mutation	b) d)	Protoplast fusion Isolation		
	7)	/	,			
	7)	Turbidity due to growth of microorgan a) Spectrophotometer	nisms b)		_·	
		c) Turbidostat	d)	All of these		
	8)	fermentation process is alway	/s don	e before starting large	scale	
		operation of any fermentation				
		a) Scale up	b)	Scale down		
		c) Scale in	d)	None of these		
Q.2	Solv	e any four of the following.				08
	a)	Define Inoculum	4 !			
	b) c)	Write short note on role of growth fact Define Bioreactor.	tor in <sup>•</sup>	rermentation medium		
	رب م	Enliet the ideal characters of hieracet	~ ~			

- d) Enlist the ideal characters of bioreactor.
- e) Write note on laboratory scale fermenter.

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

- Differentiate between batch and continuous culture fermentation. a) b)
  - Write in short about development of bacterial inoculum.
- Write short note on Antifoam agents and their examples. C)

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

- a) Define Screening and write a note on secondary screening.
- **b)** Define strain improvement and write a note on strain improvement using mutation.
- c) Write a note on Scale up of fermentation process.

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

- a) Describe in detail about design, parts and functions of fermenter.
- b) Describe in detail about molasses and corn steep liquor as a fermentation media.

#### 80

80

		SLR-GC-1	6				
Seat No.		Set	Ρ				
B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024 INDUSTRIAL MICROBIOLOGY – IV Basics techniques in Industrial Microbiology (EN1207)							
	Day & Date: Friday, 17-05-2024         Max. Marks: 40           Time: 09:00 AM To 11:00 AM         Max. Marks: 40						
Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat diagrams wherever necessary.							
		oose the correct alternatives from the options.Ammonium sulfate is mostly preferred agent fora) solvent extractionb) centrifugationc) distillationd) precipitation	08				
	2)	Recovery of organic acids is mostly carried out using a) distillation b) filtration c) crystallization d) centrifugation					
	3)	Charged molecules are purified using chromatography.a) Ion exchangeb) Affinityc) Adsorptiond) Gas					
	4)	Activated sludge digestion is used in a) upstream processing b) effluent treatment c) product purification d) quality control					
	5)	The detection of fever causing agents in pharma product is assessed usinga) Sterility testingb) Pyrogen testingc) Carcinogen testingd) Allergen testing					
	6)	Market potential of the product is assessed usinga) surveyb) quality controlc) recovery processd) site selection					
	7)	Use of detergents is the method of cell disruption. a) Biological b) Physical c) Chemical d) Isolation					
	8)	Taking all government permissions required for fermentation industry comesundera) Rules for employeeb) financec) Market potentiald) Legal aspects					

Q.2	<ul> <li>Answers any Four of the following.</li> <li>a) What are intracellular products?</li> <li>b) What is crystallization?</li> <li>c) What is effluent?</li> <li>d) What is allergen?</li> <li>e) What is recovery of product?</li> <li>f) What are legal aspects?</li> </ul>	08
Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Affinity chromatography</li> <li>b) Effluent treatment</li> <li>c) Industry site selection</li> </ul>	08
Q.4	<ul> <li>Answers any Two of the following.</li> <li>a) Explain the methods of cell disruption.</li> <li>b) Describe the HPLC.</li> <li>c) Write in brief on plan for industry.</li> </ul>	08
Q.5	<ul> <li>Answers any One of the following.</li> <li>a) Explain in detail the factors affecting and criteria for selection of downstream processing.</li> </ul>	08

b) Describe in detail any case study related to industrial microbiology.

Seat No.			Set F	C			
B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024 Industrial Biotechnology (Paper – III) Basics of Biomolecules (EN1208)							
	Day & Date: Saturday, 18-05-2024         Max. Marks: 40           Time: 09:00 AM To 11:00 AM         Max. Marks: 40						
Instru	Instructions: 1) All questions are compulsory. 2) Draw neat labeled diagrams wherever necessary. 3) Figures to the right indicate full marks						
			ined by bond. ) Hydrogen	8			
	<ul> <li>2) The helix has</li> <li>a) 3.6</li> <li>c) 2.8</li> </ul>	amino acids residues b d	6.0				
	<ul> <li><b>3)</b> is water so</li> <li>a) Vitamin A</li> <li>c) Vitamin B</li> </ul>	bluble vitamin. b) d)					
	<ul> <li>The oligosacchari</li> <li>a) Glycosides</li> <li>c) Glycolipid</li> </ul>	ide linked to proteins is o s bj dj	) Glycoprotein				
	<ul><li>5) The substrate bin</li><li>a) Peptide</li><li>c) Vander wa</li></ul>	ids to active site of enzyr bj ill dj	) Disulphide				
	<ul><li>6) Rickets is caused a) Vitamin A c) Vitamin K</li></ul>	l due to deficiency of b] d]					
	<ul> <li>7) The hydrolysis of as</li> <li>a) Saponification</li> <li>c) Methylation</li> </ul>	tion b)					
	<ul> <li>8) B form of DNA co</li> <li>a) 9</li> <li>c) 10</li> </ul>	onsists base pair p b d	) 8				
	<ul> <li>Define any Four of the and the provided state of the second state of the seco</li></ul>	de. e. enzyme.		8			

Page 2 of 2

#### Q.3 Write short notes on any Two of the following. 80 a) Describe in detail Watson crick model of DNA. b) What is active site? Discuss in brief properties of active site. c) Explain structure and role of cholesterol. Q.4 Answer any Two of the following. 80 a) Discuss in detail sources and dietary recommendations of fat soluble vitamins. b) Discuss in brief mechanism of enzyme action. Add a note on induced fit hypothesis. c) Discuss in detail classification of lipids. Q.5 Answer any One of the following. 80

- a) Discuss in brief structural level of classification of protein.
- b) Define carbohydrate. Explain in detail structure and function of homopolysacchrade.

NO.										
B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April-2024										
Industrial Biotechnology (Paper-IV) Basics of Metabolism (EN1209)										
Day & Date: Monday, 20-05-2024         Max. Marks: 40           Time: 09:00 AM To 11:00 AM         Max. Marks: 40										
<ul> <li>Instructions: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full marks.</li> <li>3) Draw neat maps and diagrams wherever necessary.</li> <li>4) Use of maps stencil is allowed.</li> </ul>										
Q.1 Mu 1)										
	a) c)	Glycolysis Glyoxylate cycle	b) d)	Citric acid cycle Fatty acids biosynthesis						
2)	Cher	mical compound involved in the p 	oroce	ss metabolism is known as						
	a) c)	Metabolites Catabolites	b) d)	Radicals Intermediates						
3)	a) c)	_ of the precursor of glycogen. Glycerol 3 phosphate Malate	b) d)	UDP- Glucose Leucine -Lysine						
4)	a)	_ of the following is non essentia Serine	al am b)	ino acid. Lysine						
	c)	Leucine	d)	Methionine						
5)	Beta a) c)	oxidation of fatty acids take plac Peroxisomes Endoplasmic reticulum	e at <sub>.</sub> b) d)	Mitochondria All of these						
6)	Gene a) b) c) d)	erally fats with unsaturated fatty a Liquid Solid Liquid in the presence of oxyge Liquid in the absence of oxyger	n	are at room temperature.						
7)	Salva a) c)	age pathway is used in synthesis Amino acid Carbohydrate	of _ b) d)	Nucleotide Fatty acids						
8)	a) c)	_ of the following is the Purine. Cytosine Adenine	b) d)	Thymine Uracil						

### Seat No.

		SLR-GC-	18
Q.2	Ans a) b) c) d) e) f)	wer the following. (Any Four) Define Lactic acid. Define Catabolism. Define Nucleic acids. Two examples of Amino acids. Define Lipids. Define Pyrimidine	08
Q.3	Wri a) b) c)	<b>te Short Notes Any Two of the following.</b> Explain unsaturated fatty acids. Diagrammatic representation of Urea cycle. Schematic representation of Glycolysis.	08
Q.4	Ans a) b) c)	<b>Swer Any Two of the following.</b> Schematic representation of TCA cycle. Write note Nucleic acid metabolism and process of salvage pathway. Explain Classification of amino acids.	08
Q.5	Ans a)	swer Any Two of the following. Describe in Detail De novo pathway.	08

b) Describe in Detail Metabolic disorders of amino acid metabolism.

Seat No.	:		Set P				
В	B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2024 ENTREPRENEURSHIP (Paper – V)						
Day 8	& Date: Wednesday, 2 : 09:00 AM To 11:00 A	24-04-2024	usiness Organization (EN1301) Max. Marks: 40				
	u <b>ctions:</b> 1) All questic 2) Draw nea 3) Figures to	ons are compulsory.					
Q.1	Multiple choice que 1) The Father of Sc a) Adam Smir c) Henry Fay	ientific Management is th b)	08 Frederick W. Taylor None of the above				
	<ul><li>2) Father of Admini</li><li>a) F.W. Taylo</li><li>c) Henry Fay</li></ul>	,	 Max Weber Elton Mayo				
	<ul><li><b>3)</b> Management by</li><li>a) Peter Druc</li><li>c) Henry Fay</li></ul>	,	developed by F. W. Taylor Chester Bernard				
	4)introduced a) F.W. Taylo c) Allen	d the functional type of or r b) d)	-				
	a) Adam's Eq	uity theory b)	separate factors influence motivation. Maslow's need hierarchy theory Theory X and Theory Y				
	<ul> <li>6) X and Y theory w a) Douglas M c) Henry Fay</li> </ul>	<b>C</b> <i>i</i>	Peter Drucker F.W. Taylor				
	<ul> <li>7) A leader should a) Technical c) Initiative</li> </ul>		Empathy All of these				
	<ul><li>8) Deal with routing a) programmer c) major decision</li></ul>	,	is a non-programmed decision minor decision				
Q.2	<ul> <li>Answer any Four of</li> <li>a) Define Business</li> <li>b) Define Decision</li> <li>c) Define Planning</li> <li>d) Define Business</li> <li>e) Define Control.</li> <li>f) What is Leaders</li> </ul>	s. making. organisation.	08				

Page 1 of 2

SLR-GC-19

what is Leadership? T)

Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Decision making process.</li> <li>b) Types of decision.</li> <li>c) Qualities of leader.</li> <li>d) X and Y theory.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Explain importance of business management.</li> <li>b) Herzberg two factor theory.</li> <li>c) Explain importance of motivation.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Discuss nature and importance of management.</li> <li>b) What is motivation? Explain financial and non-financial incentives.</li> </ul>	08

No.					56		
В	B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examinatio March/April-2024						
		ENTREPRENEURSH Advanced Accountancy &		· • /			
		te: Thursday, 25-04-2024 00 AM To 11:00 AM			Max. Ma		
Instr	uctio	<ul> <li>ons: 1) All questions are compulsory.</li> <li>2) Figures to the right indicate full r</li> <li>3) Draw neat diagrams and give ec</li> <li>4) Use of logarithmic table and calc</li> </ul>	luati	ons wherever necessa	ıry.		
Q.1	Cho 1)	oose the correct alternatives from the The short key to quit from tally is	opt	tions.			
	•,	a) Ctrl+L c) Ctrl+M	b) d)	Ctrl+P Ctrl+Q			
	2)	Bank reconciliation prepared by a) Bank c) Businessman	b) d)	Auditors All the above			
	3)	Inter-state trade is presently subject to a) CGST c) IGST	b) d)	SGST GGST			
	4)	<ul> <li>Increases in current asset will</li> <li>a) Increase in working capital</li> <li>b) Decrease in working capital</li> <li>c) No effect on working capital</li> <li>b) None of the above</li> </ul>					
	5)	Auditing begins whereends. a) Accounting c) Selling	b) d)	Marketing Purchase			
	6)	<ul> <li>Voucher is a</li> <li>a) Receipt issued to a customer for</li> <li>b) Document evidence in support of</li> <li>c) Invoice received from supplier</li> <li>d) All the above</li> </ul>					
	7)	Internal auditor is appointed by					

# Seat

No.

# **B.Sc**

Set

arks: 40

# 4)

- 5)
- 6)
- 7)
  - a) The management The government b)
    - c) The creditors The investors d)
- 8) An audit which is compulsory by the law
  - a) Internal audit c) Continuous audit
- b) Statutory audit
  - d) Interval audit

Ρ

80

on:

SLR-GC-20

08

08

#### Q.2 Answer any Four of the following.

- a) What is GST?
- b) What is Bank reconciliation?
- c) Define Funds Flow.
- d) Define Auditor.
- e) What is insurance claim?
- **f)** Define Internal Audit

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

- a) Explain any four functions in Tally software.
- b) Explain benefits of cash flow and funds flow statement.
- c) Prepare Bank reconciliation Statement as on 31st March, 2022 from the following details.
  - 1) Bank column of Cash book shows debit balance of Rs. 15,000.
  - 2) Cheque of Rs. 10,000 issued but not presented for payment.
  - 3) Customer directly deposited of Rs. 7,000 in to bank.
  - 4) Bank debited bank charges of Rs. 200
  - 5) Cheque of Rs. 3,700 deposited in to the bank but not credited by the bank.
  - 6) Bank paid insurance premium of Rs. 2,500 but not recorded in cash book.

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

- a) Explain importance of Vouching.
- b) Explain Internal Audit and External Audit.
- c) Explain special features in respect of Audit of Co-operative Societies.

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

- a) Explain advantages and limitation of auditing.
- **b)** Discuss Qualifications and Disqualifications of an Auditor of Joint Stock Company.

08

E	B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2024 INDUSTRIAL CHEMISTRY (Paper - V) Analytical & Industrial Aspects of Inorganic Chemistry (EN1303)						
	& Date	e: Friday, 26-04-2024 Max. Marks: 40 0 AM To 11:00 AM					
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 diagrams and give equations wherever necessary.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> </ul>					
Q.1	Rew 1)	rite the following sentences by choosing the correct alternative.08The acid which ionizes nearly to 100% is called as					
	•)	a) strong acid b) weak acid c) methyl red d) litmus					
	2)	is called as king of chemicals.a) H2SO4b) (NH4)2SO4c) Caustic potashd) Perchloric acid					
	3)	A biological catalyst isa) an amino acidb) N2c) sucrosed) zymase					
	4)	The heating of the precipitate with the passage of time is termed as a) ignition b) coagulation c) ageing d) peptization					
	5)	Efficiency of catalyst is depends on its a) particle size b) solubility c) molecular weight d) melting point					
	6)	is essential for corrosion.a) Liquidb) Gasesc) Waterd) Solid					
	7)	Gravimetric analysis is a quantitative estimation of species by a) volume measurement b) weighing c) elemental analysis d) oxidation					
	8)	The catalytic reactions caused by are called acid catalysis.a) waterb) alcoholc) based) acid					

Seat

No.

Ρ

# SLR-GC-31

Set

Q.2	Ans a) b) c) d) e) f)	wer Any four of the following. Define precipitant and precipitate. What is auto-catalyst? Define co precipitation and post precipitation What is the role of promoter in the catalysis? What is corrosion? Mention its type. Write the optimum conditions of Contact process for manufacture of sulphuric acid.	08
Q.3		te short notes on any two of the following.	08
	a)	Nucleation	
	b) c)	Characteristics of catalytical reaction Electrochemical theory	
	0)		
Q.4	Ans	wer any two of the following.	08
	a)	Discuss the role of phenolphthalein as an indicator.	
	b)	Write a note on effect of oxygen on corrosion.	
	C)	What are conditions for precipitate?	
Q.5	Ans	wer any one of the following.	08
4.0	a)	Discuss in detail manufacture of ammonia by Haber's process.	•••
	b)	Explain choice of an indicator for titration between weak acid and strong base with the help of neutralization curve.	

1)	using	on fibre ends protruding from the g machine is known as scouring		ce of the cloth are removed by singeing	
	,	desizing	d)	bleaching	
2)	a)	_ is a CNS drug. tolbutamide phenobarbitone	,	ethambutol isoniazide	
3)	a)	roduct of sugar industry is CO <sub>2</sub> spent wash		fusel oil bagasse	
4)	a)	ool is prepared by treating <i>a</i> -olefin γ-olefin	b)	cone. H <sub>2</sub> SO <sub>4</sub> at low temperature. $\beta$ -olefin $\delta$ -olefin	
5)	a)	oxychlor is synthesised by reac aniline anisole	b)	loral hydrate with amine alcohol	
6)	a)	rofen is an drug. anti-bacterial anti-diabetic	,	anti-inflammatry anti malerial	
7)	a)	e-3-acetic acid is used as herbicide micronutrient	b)	bacteriocide plant growth hormone	
8)	a)	_ is used to separate the soap a NaOH NaCl	b)	aponification. NH₄OH KOH	
a) b)	Wha Wha Write	the following. (Any Four) t are anti-inflammatory drugs? t is amphoteric detergent? e two examples of antitubercular e uses of carbaryl.	S.		08

2) Figures to the right indicate full marks.

Instructions: 1) All questions are compulsory.

Seat No.

## B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2024

Industrial Chemistry (Paper – VI)

# Analytical & Industrial Aspects of Organic Chemistry (EN1304)

3) Draw neat diagrams and give equations wherever necessary.

4) Use of logarithmic table and calculator is allowed. (At. Wts: H=1, C=12, O=16, N=14, Na=23, CI=35.5)

Day & Date: Saturday, 27-04-2024 Time: 09:00 AM To 11:00 AM

Q.1

Q.2

SLR-GC-22

Ρ Set

Max. Marks: 40

- d
- Write applications of antibiotic drugs. e)

Page 1 of 2

Q.3	<ul> <li>Write short notes. (Any Two)</li> <li>a) Explain manufacture of soap by hot process.</li> <li>b) Write general properties of starch and synthetic adhesives.</li> <li>c) Write synthesis and uses of indole-3 acetic acid.</li> </ul>	08
Q.4	<ul> <li>Answer the following. (Any Two)</li> <li>a) Write synthesis and applications of tolbutamide.</li> <li>b) Explain extraction of juice.</li> <li>c) Write preparation of deriphat and its uses.</li> </ul>	08
Q.5	<ul> <li>Answer the following. (Any One)</li> <li>a) Explain manufacture of ethyl alcohol from molasses with diagram.</li> <li>b) Write classification of fibres. Explain processes singeing and scouring.</li> </ul>	08

В	.Sc. (	Ent	repreneurship) (Semester - March/April MICROBIAL BIOTECHN Genetics (E	– 2 OL(	DGY (Paper – V)
			nday, 29-04-2024 To 11:00 AM		Max. Marks:
Instr	uction	2)	All questions are compulsory. Draw neat diagrams and give eq Figures to the right indicate full n		•
Q.1	Choo 1)		<b>ne correct alternatives and rew</b> blood grouping in humans is an codominance pseudoscience		ance of
	2)	a)	jugation can't take place between F' and F- HFR and F-	b)	F- and F+ HFR and F+
	3)	Gen a) c)	otype of dominant plant can be do pedigree analysis back cross	eterr b) d)	
	4)		ability of cells to uptake DNA frag vn as Competence Fecundity	imer b) d)	nts from the surroundings is Fitness HFR
	5)		IS elements can be identified by Antibiotic resistance gene Integrase site	b)	
	6)	Dire a) b)	ct repeats in the IS element are p downstream the inverted repeat upstream the inverted repeat	rese	ent

#### c) within the inverted repeat

d) within the transposon

#### Percentage of crossing over is more when \_\_\_\_\_ 7)

- linked genes are located far apart from each other a)
- genes are located in a different cell b)
- linked genes are located close to each other c)
- genes are not linked d)
- The structure of DNA by \_\_\_\_\_ received the Nobel Prize in 1962. 8)
  - Maurice Wilkins a)
- b) Francis Crick
- d) Erwin Chargaff Rosalind Franklin c)

40

**08** 

Set

SLR-GC-23

Seat No.

		SLR-GC-	23
Q.2	Ans a) b) c) d) e) f)	wer any four of the following: Define Test cross Define Transduction Define Genotypic and phenotypic ratio Define Transposable elements Draw structure of Chromosome Define Mutagenic agents	08
Q.3	Wri a) b) c)	<b>te short notes on any two of the following:</b> Define Multiple alleles and add a note on ABO blood group system. Write a detailed note on Dihybrid ratio with suitable example. Add a note on Mendel's experiment.	08
Q.4	Ans a) b) c)	wer any two of the following: Define Chromosome and add a note on types of chromosome. What is chromosomal aberration and add a note on its types. Define Crossing over and Write a note on types and significance of Crossing over.	08
Q.5	Ans a)	wer any one of the following: Explain process of conjugation in detail.	08

**b)** Define Mutation and add a note on Spontaneous and Induced Mutation.

Seat	
No.	

### B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April-2024 **MICROBIAL BIOTECHNOLOGY (Paper – VI)** Fermentation Technology (EN1306)

Day & Date: Tuesday, 30-04-2024 Time: 9:00 AM To 11:00 AM

Q.1

Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat diagrams wherever necessary. Choose the correct alternative and rewrite the sentences. 1) is produced with the help of methanogenic bacteria by anaerobic diaestion. a) Ethanol b) Biogas c) Biodiesel d) Butanol The inhibition of growth of gram positive bacteria by inhibiting Peptidoglycan 2) biosynthesis is carried out by \_\_\_\_\_ antibiotic. a) Penicillin b) Streptomycin c) Tetracyclin d) Quinolone 3) Ales are the beer in which fermentation is carried out by using . a) Top yeast b) Bottom yeast d) All of these c) Middle yeast Starchy substrate mainly used in the production of . 4) a) Penicillin b) Amylase c) Wine d) Biofertilizer The insecticidal activity of Bacillus thuriengiensis is due to production of 5) \_ type of toxin. a) b) μ α d) ɗ c) β 6) In Leguminous crop \_\_\_\_\_ biofertilizer mainly used for nitrogen fixation. a) Azotobacter b) Bacillus thuringensis c) Rhizobium d) Pseudomonas species The protein content which is extracted from pure cultures of yeasts, 7) bacteria, algae, and fungi is called as a) Single cell protein b) Double cell protein c) Triple cell protein d) Vitamins Trans esterification reaction involved in the production of 8) a) Bioethanol b) Biodiesel c) Biogas d) Biohydrogen

Max. Marks: 40

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

- a) Enlist applications of citric acid.
- **b)** Define bio fertilizer.
- c) What is PHB?
- **d)** Define Antibiotic.
- e) Enlist types of beer.

#### Q.3 Write short note on. (Any Two)

- a) Give a detailed account on production of citric acid.
- **b**) Explain in brief vitamin B12 production by dual fermentation.
- c) Discuss in short production of red wine.

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

- a) Explain in brief Amylase fermentation.
- b) What is broad spectrum antibiotic? Explain in detail production of streptomycin.
- c) Describe in detail algae as SCP. Add a note on nutritional value of SCP.

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

- a) Discuss in detail biogas production.
- b) Give a detailed account on nitrogen fixation by Rhizobium.

#### 80

# 08

08

No.							
B.Sc. (Entrepreneurship) (Semester - III) (Old) (CBCS) Examination: March/April-2024							
			EN	TREPRENEURS			
Pr	rinc	iples o				usiness Organizat	ion (EN301)
			dnesday, 24- o 11:00 AM	04-2024			Max. Marks: 40
instr	ucu			s are compulsory. ne right indicate full	mark	KS.	
Q.1	Mu	Itiple cl	hoice quest	ions.			08
	1)			ring is not a functior		-	
		,	Planning		b)	Staffing	
	•	,	Co-operation		d)	Controlling	
	2)		gement is an art	·	h)	a science	
		,	both art and	science	d)	Neither	
	3)	Henry	Fayol was a		,		
	- /		Social scient		b)	Mining engineer	
		c) /	Accountant		d)	Production engineer	
	4)					eory of Management'?	
		,	Harold Koon <sup>.</sup> F.W. Taylor	tz	b) d)	Henry Fayol Max Weber	
	<b>E</b> )	,	•	ing is not a Manag	,		
	5)		Order	ring is not a Manage	b)	· · · · · · · · · · · · · · · · · · ·	
		,	Equity		d)	-	
	6)	MBO v	was develope	ed by			
	,	a) F	Peter. F. Dru		b)		
		c) f	Fayol		d)	None of these	
	7)			aisal serves as a ba			
		,	Training Performance			Promotion Staffing	
	۵۱	,			ч)	Otaning	
	8)		something	to do	b)	anything	
			order		d)	None of these	
Q.2	۸n	ewor or	W Four of H	ne following			08
હ.૮	a)		Manageme	<b>ne following.</b> nt.			Võ
	b)		Planning.				

- b) Define Planning.c) Define Directing.
- d) Define Staffing.e) Define Controlling.
- Define Motivation. f)

Set P

SLR-GC-25

# Seat No.

Q.3	<ul> <li>Write Shorts note on any Two of the following.</li> <li>a) Define nature of Business Management?</li> <li>b) Define Characteristics of Business originations?</li> <li>c) Define Importance of motivation?</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following</li> <li>a) Describe Function and Importance of Leadership?</li> <li>b) Define Definition of control and types of control?</li> <li>c) Explain Business planning and its process?</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Explain Herzberg two factor theory?</li> <li>b) Explain Decision making Process and Types of Decision.</li> </ul>	08

			ENTREPREN	EURSH				
	Advanced Accountancy & Auditing (EN302)							
			nursday, 25-04-2024 / To 11:00 AM				Max. Marks: 40	
Instr	ucti		<ol> <li>All questions are compul</li> <li>Figures to the right indic</li> <li>Draw neat diagrams and</li> <li>Use of logarithmic table</li> </ol>	ate full m l give eq	uati	ons wherever necessary	у.	
Q.1	Ch 1)	GST	the correct alternatives f stands for Gross Statement		-	ions. Gross Service Tax	08	
		,	Goods & Service Tax		'	General Service Tax		
	2)	a)	_ short key is used to crea Ctrl+F3 Ctrl+F4	ate a new	b)	mpany in Tally. Alt+F3 Alt+F4		
	3)	a)	Reconciliation Statement Student Auditors	is prepa	b)	by Businessman None of these		
	4)	a)	nsaction not recorded at a Principle Partial omission	ll is calle		an error of Complete omission Duplication		
	5)	a)	ases in current asset will _ Increase in working capit No effect on working capi			Decrease in working ca None of the above	apital	
	6)		udit which is compulsory b Government audit Cost audit	y the law	v b) d)	Internal audit Statutory audit		
	7)		nal auditor is appointed by The management The creditors		b) d)	The government The investors		
	8)		stock which is rescued fror Scrap Salvaged stock	m fire is <sub>_</sub>	b) d)	 Defectives None of the above		
Q.2	An: a) b) c) d) e) f)	Defir Defir Defir Defir Wha	any Four of the following ne Voucher ne Bank Reconciliation Sta ne Cash flow statement. ne Auditing. t is insurance claim? t is Vouching?	-			08	

B.Sc. (Entrepreneurship) (Semester - III) (Old) (CBCS) Examination: March/April-2024

#### Day & Dat Time: 09:0

Seat No.

# SLR-GC-26

Set P

- 7)
- 8)
- Q.2 Ans
  - a)
  - b)
  - c)
  - d)
  - e)
  - f)

08

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

- a) Write steps of Company creation, Ledger creation in Tally ERP 9.
- **b)** Objectives of auditing.
- c) Need of Bank Reconciliation Statement.
- d) On 31st March 2022 the Cash Book of Mr. Pushpa Woods Ltd. showed a bank balance of Rs. 60,000, but Pass Book showed a different balance. On comparing the Cash Book with the Pass Book the following discrepancies were noted:
  - 1) Cheque of Rs. 4,500 deposited into bank but was not yet collected by bank.
  - 2) Bank paid our electricity bill Rs. 10,000 which was not recorded in the Cash Book.
  - 3) Interest on investment Rs. 8,000 was collected by bank was not recorded in Cash Book.
  - 4) Bank charges Rs. 500 was debited in Pass Book.

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

a) Prepare a schedule of changes in working capital horn the summary of balance sheets given below:

Liabilities	31.12.21	31.12.22	Assets	31.12.21	31.12.22
Share Capital	80,000	95,000	Fixed Assets	90,000	1,00,000
Reserve	20,000	25,000	Current Assets	30,000	50,000
Current Liabilities	20,000	30,000			

- b) Explain Classification of Activities for the Preparation of Cash Flow Statement.
- c) Explain importance of vouching.

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

- a) Explain various types of Audit.
- **b)** Following are the balance sheet of Vicks Ltd.

Liabilities	31.12.21	31.12.22	Assets	31.12.21	31.12.22
Creditors	36000	41000	Cash	4000	3600
Loan from Bank		20000	Debtors	35000	38400
Debentures	30000	25000	Stock	25000	22000
Capital	148000	149000	Land	20000	30000
			Building	50000	55000
			Machinery	80000	86000
	214000	235000		214000	235000

During the year Rs. 26,000 paid as dividend. The provision made for depreciation against machinery as on 01.01.2016 was Rs. 27,000 and on 31.12.2016 Rs. 36,000 Prepare Cash flow statement.

80

Day & Time	<b>Ana</b> & Date : 09:00	(Entrepreneurship) (Semester March/April INDUSTRIAL CHEMIS alytical & Industrial Aspects of I e: Friday, 26-04-2024 0 AM To 11:00 AM ns: 1) All questions are compulsory.	-20 TR	24 Y (Paper - V)
moti		<ul><li>2) Figures to the right indicate full m</li><li>3) Draw neat labelled diagrams must</li></ul>		
Q.1	Multi 1)	iple Choice Questions. The chemical reaction between acid 8 as reaction. a) redox c) complexometric	ba b) d)	
	2)	Gravimetric analysis is quantitative es a) Oxidation c) Volume	tima b) d)	ition of species by Measurement weighing
	3)	The unintentional chemical or electroc surrounding is known as a) corrosion c) erosion	b) d)	nical reaction of matter with its passivity reduction
	4)	Catalyst used in manufacture of H <sub>2</sub> So a) V <sub>2</sub> O <sub>5</sub> c) NI	₄ is <sub>-</sub> b) d)	Fe Pt
	5)	a) HCl c) KMnO4	b) d)	KCI HNo3
	6)	Atmospheric corrosion involves a) Solid-solid c) Liquid-gas	b)	eterogenous system. Liquid-solid Solid-gas
	7)	In basic medium phenolphthalein give a) colourless c) green	s b) d)	
	8)	BaSo₄ isprecipitate. a) amorphous c) crystalline	b) d)	gel gelatinous

# Seat No.

SLR-GC-27

Set Ρ

Q.2	Ans a) b) c) d) e) f)	wer any four of the following. Define standard solution & end point. Define ignition & digestion. Name the types of catalysis. Give two advantages of contact process. Name two factors that affects corrosion. Define neutralization. Give its example.	80
Q.3	Writ a) b) c)	<b>e short notes on any two of the following.</b> Crystalline precipitate Dimethylglyoxime. Positive and negative catalyst.	08
Q.4	Ans a) b) c)	<b>wer any Two of the following.</b> Draw neat labeled diagram of contact process for manufacture of H <sub>2</sub> So <sub>4</sub> . Explain galvanizing. Explain the term tinning.	08
Q.5	Ans a) b)	<b>wer any one of the following.</b> Explain neutralization curve & choice of indicator for strong acid & strong base. Explain manufacture of ammonia by Haber process.	08

		SLR-GC-2	8
Seat No.		Set F	C
Β.	Sc. (Entrepreneurship) (Semester - March/April INDUSTRIAL CHEMIST	I-2024 TRY (Paper – VI)	
	Analytical & Industrial Aspects of Date: Saturday, 27-04-2024 09:00 AM To 11:00 AM	Max. Marks: 4	40
Instrue	<b>ctions:</b> 1) All questions are compulsory. 2) Figures to the right indicate full m	narks.	
	Multiple choice questions. I) Hard soap is formed from a) tallow c) groundnut oil	b) glycerin d) glycerol	08
2	<ul> <li>2) Sucrose is sugar.</li> <li>a) crystalline</li> <li>c) hygroscopic</li> </ul>	b) amorphous d) neutral	
3	<ul> <li>is used to wrap the thread.</li> <li>a) Softener</li> <li>c) Gel</li> </ul>	b) Lubricant d) Antiseptic	
2	<ul> <li>is not natural fiber.</li> <li>a) Juite</li> <li>c) Silk</li> </ul>	b) Nylon d) wool	
Ę	<ul> <li>Plant growth regulating substance is</li> <li>a) acetic acid</li> <li>c) Indole-3-acetic acid</li> </ul>	b) methoxychlor d) paludrine	
e	5) Rock salt is a) Kcl c) Nacl	b) Fecl <sub>3</sub> d) Mgcl <sub>2</sub>	
7	<ul> <li><i>is used as bleaching agent.</i></li> <li>Nacl</li> <li>NaNo<sub>2</sub></li> </ul>	b) Kcl d) NaOcl	
8	<ul> <li>Sodium salt of α-naphthol is used for syr</li> <li>a) IAA</li> <li>c) Ethophan</li> </ul>	nthesis of b) AA d) carbaryl	
	<ul> <li>Answer any Four of the following.</li> <li>a) Name two saponifying alkali.</li> <li>b) Write byproducts of sugar industry.</li> <li>c) Name the types of fibers.</li> <li>d) Define drug with example.</li> <li>e) Give two uses of pyrethroid.</li> <li>f) Write the structure of monochrotophos.</li> </ul>		08

Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Crystallisation of sugar.</li> <li>b) Objects of sizing.</li> <li>c) 4 different qualities of ideal drug.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Give synthesis of indole-acetic acid.</li> <li>b) Draw neat labelled diagram of concentration of sugar solution by triple effect vacuum evaporator.</li> <li>c) Give four objects of sizing.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Explain raw material used to manufacture of soap.</li> <li>b) Explain the process of extraction of juice &amp; clarification of juice.</li> </ul>	08

			MICROBIAL BIOTECHN Genetics (E		•••	
			nday, 29-04-2024 To 11:00 AM			Max. Ma
Instr	uction	2)	All questions are compulsory & o Draw a neat labeled diagram wh Figures to the right indicate full r	ere	er necessary.	
Q.1	Choc 1)	Excl as _ a)	ne correct alternatives and rew nange of segment between non-h  Translocation Transduction	omo	-	
	2)	of its a) c)	is condition if the child is borr cells? Non-disjunction Segregation	b) d)	h an extra chromosomo Recombination None of the above	e in each
	3)	a) c)	acts as an intercalating agen Acridine orange Proflavin		Ethidium Bromide All of these	
	4)	The a) c)	word chromosome was given by Bateson (1906) Mendel (1909)	b) d)	Waldeyer (1888) Watson (1878)	
	5)	5 - E a) c)	Bromouracil is a mutagen. It act a Deaminating agent Base analog	b)	Alkylating agent None of the above	

March/April - 2024

Seat

No.

- 6) Linkage genes are located on \_\_\_\_\_.
  - Same chromosome a)
  - Different chromosome of the same size and shape b)
  - Inherited genes c)
  - Both a and b d)

7)

- is the phenotype of an individual represents.
  - Gene arrangement a)
  - Genetic linkage b)
  - Physical appearance of the person c)
  - All the above d)
- 8) is the cross when a heterozygous offspring is crossed with homozygous recessive parent.
  - Reciprocal cross a)
- b) Dihybrid cross

Back cross c)

- d) Test cross

### Ρ Set

SLR-GC-29

x. Marks: 40

**08** 

B.Sc. (Entrepreneurship) (Semester - III) (Old) (CBCS) Examination-

SLR	-GC-29
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Q.2	a) b) c)	wer any four of the following: Define Dihybrid with its ratio. Write a note on Law of Segregation. Define Transformation. Define Mode. Explain Linkage. Define mutation.	80
Q.3	Atte a) b) c)	<b>empt any two of the following:</b> Write a detail Incomplete dominance. Explain in detail Mutagenic agents. Explain Law of Dominance with example.	08
Q.4	Ans a) b) c)	wer any two of the following: Describe process of conjugation with suitable example. Explain Supplementary Epistasis. What is crossing over? Explain in different theories of crossing over.	08
Q.5	Ans a) b)	wer any one of the following: Write a detailed on Mendel's experiment. Define Chromosome and Explain its types based on centromere.	08

#### March/April-2024 **MICROBIAL BIOTECHNOLOGY (Paper – VI)** Fermentation Technology (EN306) Day & Date: Tuesday, 30-04-2024 Time: 9:00 AM To 11:00 AM Instructions:1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat diagrams wherever necessary. Choose the correct alternative and rewrite the sentences. Microorganisms used to produce algal single-cell proteins. a) *E.coli* b) Asperaillus Niger c) Bacillus megaterium d) Spirulina 2) is cobalt containing vitamin. a) Vitamin B12 b) Vitamin A c) Niacin d) Vitamin C a) Alfa Lactam b) Beta Lactam c) Cephalosporin d) Tetracvcline 4) Starchy substrate mainly used in the production of . a) Penicillin b) Amylase d) Biofertilizer c) Wine 5) Industrial microbiology, mainly depends on the phenomenon . a) Vaccination b) Fermentation c) Purification d) Pasteurization \_\_\_\_ Organism mainly used in the production of bioinsecticide. a) Bacillus subtilis b) Bacillus thuringensis c) Pseudomonas aurogenosa d) Staphylococcus species 7) In penicillin G production \_\_\_\_\_ is the precursor used. a) Acetate b) Acetic acid d) Methoxy acetic acid c) Phenyl acetic acid 8) is mainly used as a raw material during ethanol fermentation. b) Molasses

d) Beef extract

Q.1 1)

### 3) Penicillin is an example of \_\_\_\_\_ antibiotic.

- 6)
- - a) Meat Extract
  - c) Peptone

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

- a) Uses of L-Lysine.
- b) Flowchart for wine production.
- c) PHA
- d) Application of Citric acid.
- e) Microbes involved in Biogas Production.

Max. Marks: 40

08

# SLR-GC-30

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

		SLR-GC-30
Q.3	<ul> <li>Write short note on. (Any Two)</li> <li>a) Nutritional value of SCP.</li> <li>b) Application of Vitamin B12.</li> <li>c) Explain in brief Beer production.</li> </ul>	08
Q.4	<ul> <li>Answer the following. (Any Two)</li> <li>a) Explain in brief Amylase fermentation.</li> <li>b) Write in detail Streptomycin Fermentation.</li> <li>c) Biochemistry of Ethanol fermentation</li> </ul>	08
Q.5	<ul> <li>Answer the following (Any One)</li> <li>a) Describe in detail Bio fertilizer production.</li> <li>b) Give a detailed account on Penicillin production.</li> </ul>	08

#### B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April - 2024 **Entrepreneurship (Paper - VII) Corporate Accounting and Professional Ethics (EN1401)** Day & Date: Friday, 05-04-2024 Time: 09:00 AM To 11:00 AM 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 logarithmic table and calculator is allowed. Choose the correct alternatives from the options. A person who purchases the share of a company is known as Director Debenture holder a) b) Trusty c) Shareholder d) capital is the part of issued capital which is subscribed by the public. Subscribed Authorised a) b) c) Paid up d) Reserved Shares are to be valued on a) Mergers b) Sale of shares c) Gift tax d) All of the above value depends on Net assets. Yield a) b) Intrinsic Super profit d) All of the above c) Compulsory winding up: If a company does commence its business within a year from its a) incorporation.

- If the number of members of company reduced below statutory limit. b)
- If a company unable to pay its debt. c)
- d) All of the above

Seat No.

Q.1

1)

2)

3)

4)

5)

8)

- A Liquidator can claim the \_\_\_\_\_. 6)
  - Asset Dividend a) b)
    - Remuneration d) None of the above c)
- 7) Business ethics deals primarily with .
  - social responsibility a)
  - the pricing of products and services b)
  - moral obligation c)
  - d) being unfair to the competition
  - is unethical business practice.
  - **Exploiting Workers Dumping Toxins** a) b)
    - over-billing the customers All of the above c) d)

SLR-GC-31

Max. Marks: 40

08

08

**08** 

80

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

- a) Define Share Capital.
- b) What is liquidation of a company?
- c) Define face value of share.
- d) Define Code of Conduct.
- e) What is ethics?

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

- a) State order of payment in liquidation.
- **b)** Explain factors influencing valuation of share.
- c) Write note on code of conduct.

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

- a) Explain need of valuation of shares.
- **b)** Explain modes of liquidation of a company.
- c) A liquidator is entitled to receive remuneration @ 2% of the assets realised and 3% on the amount distributed among the unsecured creditors. The assets realised Rs. 70,00,000 against which payment was made as follows: Liquidation expenses Rs. 50,000 Preferential creditors Rs. 1,50,000 and Secured creditors Rs. 40,00,000; Unsecured creditors: Rs. 30,000 Calculate the total remuneration payable to the liquidator.

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

 a) Anjana Total Care Ltd invited applications for 1,00,000 of its equity shares of Rs. 10 each on the following terms: Payable on application Rs.3 per share

Payable on allotment Rs.3 per share

Payable on first call Rs.2 per share

Payable on final call Rs.2 per share

Applications for 1,50,000 shares were received, excess application money were refunded. All calls and allotment money was duly received.

Give journal entries in the books of the company.

b) Explain ethics in Marketing and Human Resource Management.

	International Marketing & Marketing Decision (EN1402)					
	Day & Date: Sunday, 12-05-2024 Max. Marks: 40 Time: 09:00 AM To 11:00 AM					
Instr	uctior	2 3	) All questions are compulsory. ) Figures to the right indicate full r ) Draw neat labelled diagrams an ) Use of log table and Calculator i	d giv	e equations wherever necessary.	
Q.1	1 Choose the correct alternatives from the options.				08	
	1)	New	Product Development starts with	۔ ۱	<u> </u>	
		a) c)	Idea Screening Idea generation		Concept Testing Test Marketing	
	2)	Inte	rnational marketing is dominated	by	countries.	
	,	a)	Poor	b)	Developing	
		c)	Developed	d)	All of these	
	3)		is international price discrimin			
		a)		,	Buyback Grey market	
	Δ	,	Dumping	,	•	
	4)		erentiation in pricing for various ge Price skimming	eogr b)	Psychological pricing	
		c)	0	d)	Geographical pricing	
	5)	Man	$ufacturer \rightarrow Retailer \rightarrow Consume$	er is	an example for level channel.	
	-	a)	Zero	b)	One	
		c)	Тwo	'	Three	
	6)		limitation of e-marketing is			
		a)	instant cash payment	d)	the inability to touch and feel Home delivery	
	7)	,		u)		
	7)	a)	en marketing relates to Agricultural marketing	b)	positive environmental impact	
		c)				
	8) Flipkart, Snapdeal, Amazon are examples of					
		a)			Super Market	
		c)	Chain stores	d)	Online stores	
Q.2	Ansv	ver a	ny four of the following:			08

March/April-2024 **ENTREPRENEURSHIP** (Paper - VIII)

Q.2 Answer any four of the following:

- Define product idea. a)
- Define product positioning. b)
- What is price war? C)
- Define pricing. d)
- What is e-commerce? e)

Ρ Set B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination:

# SLR-GC-32

- 3)

Seat

No.

08

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

- **a)** Write note on product life cycle.
- **b**) Benefits of market segmentation.
- c) Explain in brief steps involved in import & export.

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

- a) Explain different methods of pricing.
- b) Discuss determinants of consumer behavior.
- c) Explain different types of distribution channels.

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

- a) What is consumer behavior? Explain in brief buying process.
- **b)** What is Global Marketing Environment? Explain different factors affecting global market environment.

80

March/April-2024					
	INDUSTRIAL CHEMISTRY (Paper – VII)				
	Ana	alytical & Industrial Aspects of	Phy	/sical Chemistry (EN1403)	
	Day & Date: Wednesday, 10-04-2024 Max. Marks: Time: 09:00 AM To 11:00 AM			Max. Marks: 40	
Instr	uctior	<ul> <li>ns:1) All questions are compulsory.</li> <li>2) Figures to the right indicate full n</li> <li>3) Draw neat diagrams and give eq</li> <li>4) Use of logarithmic table and calc (At. Wt.: H=1, C=12, O=16, N=14)</li> </ul>	uatio ulato	ons wherever necessary. or is allowed.	
Q.1				•	
	1)	ences. Conductance is the reciprocal of a) resistance c) equivalent conductance	b) d)	- specific resistance molecular conductance	
	2)	The SI unit of conductance is a) Siemen c) mhos	b)	ohm ohm <sup>-1</sup>	
	3)	In potentiometric titration, the titration bridge used is a) KCI c) NH4CI		ween AgNO₃ and KCI, the salt KNO₃ KBr	
	<ul> <li>4) Titrations in which end points are determined by e. m. f. measurements called titrations.</li> <li>a) conductometric</li> <li>b) redox</li> <li>c) potentiometric</li> <li>d) precipitation</li> </ul>		redox		
	<ul> <li>5) In case uni-univalent electrolytes the values of equivalent conductance and molecular conductance are</li> <li>a) different b) same</li> <li>c) 2 and 3 d) 1 and 2</li> </ul>			same	
	6)	The equivalent conductance is given a) 1000.k/M c) 1000.k/N		ne relation, λ = 100.k/N 100.k/M	

Seat

7)

8)

c)

factor/s.

No. B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination:

The opacity is the reciprocal of \_\_\_\_\_

extinction coefficient

c) type of fuel and oxidant

a) transmittance

a) fuel-oxidant ratio

b) optical density

b) type of solvent

d) all of these

d) absorbance

In flame photometer the temperature of the flame is controlled by \_\_\_\_\_

SLR-GC-33

Set Ρ

### 08

- Q.2 Answer any four of the following.a) Define the terms
  - specific and equivalent conductance.
  - **b)** What are disadvantages of flame photometry?
  - c) How conductivity water is prepared?
  - d) What are the different components of flame photometer?
  - e) Draw nature of graph for classical and analytical methods in potentiometric titrations.

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

- a) Potentiometric precipitation titration
- **b)** State and explain Beer's law.
- **c)** Quinhydrone electrode

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

- a) What is flame photometer? Explain its principle.
- b) Explain single cell photoelectric colorimeter.
- c) What are buffer solutions? Give its types. What is the pH of solution having  $H^{+1}$  ion concentration  $3.3 \times 10^{-2}$ M.?

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

- a) Discuss in detail the migration of ions with the help of Ostwald's schematic diagram for Hittorf's cell.
- **b)** Mention different types of conductometric titrations. What are its advantages? Explain conductometric titration between weak acid and strong base.

08

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	Industrial Aspects of A	pplied Chemistry (EN14	104)
	ate: Friday, 12-04-2024 00 AM To 11:00 AM		Max. Ma
Instructio	ons: 1) All questions are compulso 2) Draw neat diagrams and g 3) Figures to the right indicate 4) Use of logarithmic table an (At. Wts.: H=1, C=12, O=1	ive equations whenever nece e full marks.	essary.
<b>Q.1 Ch</b> 1)	oose the correct alternative for t is the impure source of m a) slag c) ore		
2)	Steel containing 0.3 to 0.6 % ca a) tool c) structural	rbon is called as steel b) mild d) high carbon	
3)	In the process of electroplating <sub>.</sub> a) electrolysis c) electrophoresis	plays an important role b) electro-osmosis d) osmosis	<b>)</b> .
4)	In bright nickel plating along witl a) cobalt c) chromium	h nickel salt, metal salt b) lead d) manganese	t is also adde
5)	<ul> <li>% nitrogen is present in a</li> <li>a) 45</li> <li>c) 20</li> </ul>	ammonium sulphate. b) 60 d) 80	
6)	fertilizers are called as co a) mixed c) nitrogenous	omplete fertilizers. b) potash d) phosphate	
7)	Which of the following is not a r	aw material used for the man	ufacture of

Seat No.

# SLR-GC-34

Set

/larks: 40

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B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2024 **INDUSTRIAL CHEMISTRY (Paper – VIII)** 

- Which of the following is not a raw material used for the manufacture of 7) ordinary glass?
  - a) Iron oxide b) Soda ash
  - d) Silica c) Limestone
- Ceramic materials are usually \_\_\_\_\_ 8) bonded materials.
  - a) ionic b) covalent
  - c) ionic and covalent d) metallic

Q.2	<ul> <li>Answer any Four of the following.</li> <li>a) What are the steps involved in metallurgy?</li> <li>b) Define the terms: <ol> <li>Throwing power and</li> <li>Electro forming</li> </ol> </li> <li>c) What is meant by compound fertilizer?</li> <li>d) Define <ol> <li>Special glass</li> <li>Coloured glass</li> </ol> </li> <li>e) Which raw material is a primary component of cement production?</li> </ul>	08
Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Bessemer process.</li> <li>b) Classification of fertilizers.</li> <li>c) Role of brightners in electroplating.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) State and explain Faraday's laws of electrolysis.</li> <li>b) Discuss in detail the process of manufacture of ammonium phosphate.</li> <li>c) Give the properties of ceramic material.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Comment on chemical methods used for concentration of ore.</li> <li>b) Explain the manufacturing process of glass material by Tank furnace</li> </ul>	08

**b)** Explain the manufacturing process of glass material by Tank furnace.

B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2024

# **MICROBIAL BIOTECHNOLOGY (Paper - VII)** Molecular Biology (EN1405)

Day & Date: Saturday, 13-04-2024 Time: 09:00 AM To 11:00 AM

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

- 2) Draw neat diagrams and give equations whenever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of logarithmic table and calculator is allowed.
  - (At. Wts.: H=1, C=12, O=16, N=14, Na=23, CI=35.5)

#### Choose the correct alternative and rewrite the following sentences. Q.1

- DNA replication is 1)
  - a) semi-conservative and semi-discontinuous
  - b) semi-conservative and discontinuous
  - c) conservative and discontinuous
  - d) conservative

#### The are joined by 3' - 5' phosphodiester linkage. 2)

- a) a nitrogenous base with pentose sugar
- b) two nucleotides
- c) two nucleosides
- d) two DNA strands

### 3) The process of DNA replication is affected by an enzyme known as .

a) Mutase c) Polymerase I

- b) Ligase
- d) Ribonuclease
- 4) Nucleosome is made up of
  - a) DNA, histone core protein linker H1
  - b) RNA, histone core protein
  - c) DNA, histone core protein
  - d) RNA, histone core protein, linker H1

5) The DNA polymerase involved in base excision repair is b) DNA polymerase  $\beta$ 

- a) DNA polymerase  $\alpha$
- c) DNA polymerase  $\gamma$
- d) DNA polymerase  $\sigma$
- 6) The enzyme photolyase is used in repair mechanism.
  - a) Base excision b) Photo reactivation
  - c) SOS repair mechanism d) Nucleotide excision
- 7) The type of coiling in DNA is \_\_\_\_\_.
  - b) Left- handed a) Right-handed
  - c) Opposite d) Zig-zag
- In DNA, the enzyme which breaks the H<sub>2</sub> bonds is \_\_\_\_\_
  - a) Ligase c) Helicase
- b) Topoisomerase d) Polymerase

Max. Marks: 40

08

- SLR-GC-35

Seat No.

Set

			SLR-GC-35
Q.2	a) b) c) d)	wer any Four of the following. Define operon. Define DNA polymerase. Enlist properties of genetic code. Draw structure of DNA. Define Central Dogma. Define SOS repair system.	08
Q.3	Writ a) b) c)	<b>te short notes on any Two of the following.</b> Discuss in detail about Post transcriptional modification. Write a note on RNA polymerase in eukaryotes. Write a note on prokaryotic transcription.	08
Q.4	Ans a) b) c)	<b>wer any Two of the following.</b> Write a note on Lac operon. Explain in brief about Mismatch repair system. Add a note on prokaryotic transcription.	08
Q.5	Ans a) b)	<b>wer any One of the following.</b> Define Replication and write a note on eukaryotic replication. Explain in detail about process of translation.	08

Seat No.		Set P		
B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April-2024 MICROBIAL BIOTECHNOLOGY (Paper - VIII) Food & Dairy Technology (EN1406)				
	Date: Monday, 15-04-2024 9:00 AM To 11:00 AM	Max. Marks: 40		
Instruct	<ul> <li>tions: 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>			
	Iultiple choice questions.) Lactic Cultures not includea) Lactococcus cremorisb) Bifidobactec) Lactococcus lactisd) E coli	08 erium		
2)	<ul> <li>Food grains are mainly preserved by</li> <li>a) Drying</li> <li>b) Solvent ext</li> <li>c) Centrifugation</li> <li>d) Filtration</li> </ul>	raction		
3)	) In cheese making enzyme is involved. a) Trypsin b) Rennin c) Pepsin d) Amylase			
4)	) Psychrophiles grow at a temperature of °C. a) 45 b) 75 c) 0 d) 37			
5)	) is the father of canning. a) Louis Pasteur b) Mendel c) John Hall d) Nicolas App	pert		
6)	<ul> <li>Spoilage in food because of microbial activity can be prever by</li> <li>a) Prohibiting the entry of micro-organisms in food</li> <li>b) Physical removal of micro-organisms</li> <li>c) Hindering the activity of micro-organisms</li> <li>d) All of above</li> </ul>	nted or delayed		
7)	<ul> <li>Food fermentations include</li> <li>a) Alcohol production</li> <li>b) Pickling</li> <li>c) Leavening bread</li> <li>d) All of these</li> </ul>			
8)	<ul> <li>Phosphatase test is used to determine efficiency of</li> <li>a) Sterilization</li> <li>b) Asepsis</li> <li>c) Disinfection</li> <li>d) Pasteurization</li> </ul>	tion		
Q.2 Ar a) b) c)	) Define Canning	08		

# Q.3 Answer any two of the following.

- a) Give the composition of Cheese and its uses.
- **b)** Write a note on food as substrate for microorganisms.
- c) Explain in brief methods of pasteurization.

# Q.4 Answer any two of the following.

- a) Explain in detail various methods of Butter production.
- **b)** Describe the manufacturing of toned and flavored milk.
- c) Discuss about microbial spoilage of fruits and vegetables.

# Q.5 Answer any one of the following.

- a) Write an essay on microbial spoilage of meat and meat products.
- **b)** Discuss in detail method of manufacture, packing, hardening and storage of Ice Cream.

08

80

		C	orporate Accounting & P	rofessi	ional Ethics (EN401)
			day, 05-04-2024 I To 11:00 AM		Ma
nstr	uctio	2 3	) All questions are compulsory. ) Figures to the right indicate function ) Draw neat diagrams and give ) Use of logarithmic table and c	equatio	ns wherever necessary.
<b>Q</b> .1	Cho		he correct alternatives from t	he opti	ons.
	1)		ity shareholders are Creditors of the company Customers of the company	b) d)	Owners of the company None of the above
	2)	a)	res can be issued At par At discount	b) d)	At premium All the above
	3)		amount of capital mentioned ir Authorised capital Reserve capital	n MOA is b) d)	
	4)	a) c)	is not a current asset.	b) d)	Bills receivable Prepaid Expenses
	5)	Deb a) c)	penture holders are Creditor of Company Owner of Company	b) d)	Debtor of Company Members of Company
	6)		first item in order of payment to		
		a) c)	Legal Charges Preferential creditor	b) d)	Secured creditor Preference shareholder
	7)	a)	ics is related to Fair and Unfair Right and Wrong	b) d)	Good and Bad All of the above

- 4 -D

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No.

8)

C)

d)

e)

f)

a)

c)

# B.Sc. (Entrepreneurship) (Semester - IV) (Old) (CBCS) Examination: March/April - 2024

### **Entrepreneurship (Paper - VII)** Accounting & Professional Ethics (EN401)

# In

# Q

**Exploiting Workers** 

Define Corporate Governance.

Define Code of Conduct.

What is business ethics?

What is globalization?

Q.2 Answer any four of the following:

a) Define Share Capital. **b)** Define Liquidator.

over-billing the customers

- der
- is unethical business practice. **Dumping Toxins** b)
  - All of the above d)

08

SLR-GC-37

Set Ρ

08

- Max. Marks: 40

**08** 

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

- a) Explain need of valuation of shares.
- **b)** Explain modes of liquidation of a company.
- c) Explain importance of business ethics.
- d) From the information given below and the balance sheet of Picasa Ltd. on 31st March, 2022, find the value of shares by Intrinsic value method.

	Bulunce on		
Particulars	Rs.	Particulars	Rs.
5,000 Equity Shares of Rs. 100 fully paid	5,00,000	Buildings	70,000
Reserves	1,50,000	Furniture	3,000
Profit & loss a/c	5,00,000	Stock	4,50,000
Creditors	48,000	Investment	3,35,000
		Debtors	2,80,000
		Cash at Bank	60,000
	11,98,000		11,98,000

### Balance Sheet

### Additional information:

1. Building is now worth of Rs. 3,50,000

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

- a) Explain factors influencing valuation of share.
- b) Explain in brief corporate social responsibility.
- c) The following particulars relate to Lazy Bear Ltd. which went into voluntary liquidation:

Preferential creditors Rs. 25,000

Unsecured creditors Rs. 50,000

6% debentures Rs. 30,000

The assets realised Rs. 80,000. The expenses of liquidation amounted to Rs. 1,500 and the liquidator's remuneration was agreed at 2.5% on amount realised.

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

- a) Anjana Drugs Limited invited applications for 3,00,000 of its equity shares of Rs. 10 each on the following terms: Payable on application Rs.3 per share Payable on allotment Rs.3 per share Payable on first call Rs.2 per share Payable on final call Rs.2 per share Applications for 4,00,000 shares were received, excess application money were refunded. All calls and allotment money were duly received. Give journal entries in the books of the company.
- **b)** Explain functional areas of ethics.

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	International Marketing & Marketing Decision (EN402)			
		Sunday, 12-05-2024 Max. Marl M To 11:00 AM	<s: 40<="" th=""></s:>	
Instr	uctio	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	1)	<ul> <li>the correct alternatives from the options.</li> <li> is concerned with the people the activities involved in the flow goods services on sales basis from the producer to consumer.</li> <li>Salesmanship</li> <li>B) Marketing</li> <li>Selling</li> <li>C) Advertising</li> </ul>	<b>08</b>	
	2)	hanges in life styles & social values of people indicates the nvironment of marketing. Political b) Social Legal d) Social & cultural		
	3)	uyer behavior is basically in nature. economical b) biological social d) cultural		
	4)	marketing is the process of selecting one or more market segment.Targetb)Segmentd)		
	5)	is often described as silent salesman. Branding b) Labelling Packaging d) Grading		
	6)	ne important ethic of marketing is to honor the right of consumer b) producer society d) worker		
	7)	advertising is the cheapest amongst all the other advertising medias.Televisionb)PressRadiod)		
	8)	arket share analysis is one tool of Marketing planning b) Marketing segmentation Marketing control d) Marketing mix		

Seat	
No.	

# B.Sc. (Entrepreneurship) (Semester - IV) (Old) (CBCS) Examination: March/April-2024 Entrepreneurship (Paper - VIII) International Marketing & Marketing Decision (EN402)

SLR-GC-38

Ρ Set

SL	R-G	<b>C-38</b>

Q.2	<ul> <li>Answer Any Four of the following:</li> <li>a) Marketing Management</li> <li>b) E-marketing</li> <li>c) Consumer Behaviour</li> <li>d) Global Marketing Environment</li> <li>e) Brand Management</li> <li>f) Physical Distribution</li> </ul>	08
Q.3	<ul> <li>Write Short Notes. (Any Two)</li> <li>a) Define product life cycle.</li> <li>b) Define Super Market.</li> <li>c) Types of Distribution Channel</li> </ul>	08
Q.4	<ul> <li>Answer any two of the following.</li> <li>a) What are the steps involved in Foreign Trade?</li> <li>b) Modern Marketing concept</li> <li>c) Define advertising strategy in competitive market.</li> </ul>	08
Q.5	<ul><li>Answer any one of the following.</li><li>a) Give Sales promotion tools &amp; technique.</li></ul>	08

b) What is mean by Retailer & give its forms of super-market?

# SLR-GC-39 Set

B.Sc. (Entrepreneurship) (Semester - IV) (Old) (CBCS) Examination: March/April-2024

**INDUSTRIAL CHEMISTRY (Paper - VII)** 

Analytical & Industrial Aspects of Physical Chemistry (EN403)

Day & Date: Wednesday, 10-04-2024 Time: 09:00 AM To 11:00 AM

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 logarithmic table and calculator is allowed.

(At. Wts. H=1, C=12, 0=16, N=14, Na=23, CI=35.5)

### Q.1 Select correct alternative from among those given below and rewrite the sentence.

- The relation  $E_G = E^{OG} + 0.0591 P^H$  gives the potential of electrode. 1) b) calomel
  - a) glass
  - d) quinhydrone c) hydrogen
- Which of the following not a strong electrolyte? 2)
  - NH4OH b) AqNO<sub>3</sub> a)
  - c) NaCl d) HCI
- 3) fuel-oxidant combination provides highest flame temperature.
  - a) Propane-air
    - Acetylene-air d) Hydrogen-air c)
- 4) Conductance with increase in concentration.
  - a) increases b) decreases
  - remains constant d) none of these c)
- In total consumption burner \_\_\_\_\_ of sample is used. 5)
  - 5% b) 50% a)
  - 95% d) 100% c)
- The e.m.f. of a concentration cell is determined by using \_\_\_\_\_. 6)
  - a) voltmeter b) galvanometer
    - potentiometer d) ammeter c)

The ratio of intensity of transmitted light to that of incident light is known as \_\_\_\_. 7)

- a) transmittance c) opacity
- b) absorbance

b) Acetylene-oxygen

- d) none of these
- If transport number of cation is 0.5, then that of anion is 8)
  - 1.5 b) 0.5 a)
  - 0.05 d) 0.005 c)

Max. Marks: 40

Q.2	Ans a) b) c) d) e) f)	<ul> <li>b) List various burners used in flame photometer.</li> <li>c) Write any two demerits of glass electrode.</li> <li>d) Give the advantages of conductometric titration.</li> <li>e) Give the statement of Lambert's law.</li> </ul>	
Q.3	Writ a) b) c)	<b>te short notes on. (Any Two)</b> Classical method and analytical method of locating end points Advantages of colorimetric estimations Premix burner	08
Q.4	Ans a) b) c)	wer any two of following. State and explain Beer's law. Under what condition the law cannot be applied? How would you determine the pH of a solution using glass electrode along with the saturated calomel electrode? Give the different characteristics of flame used in flame photometry.	08
Q.5	Ans a) b)	wer any one of the following. Write different types of conductometric titration. Explain conductometric titration of strong acid against strong base. Define transport number of cation and anion. Explain the factors affecting	08

b) Define transport number of cation and anion. Explain the factors affecting transport number of ions.

		SLR-GC-	40
Seat No.		Set	Ρ
B	.Sc	. (Entrepreneurship) (Semester - IV) (Old) (CBCS) Examination: March/April-2024 INDUSTRIAL CHEMISTRY (Paper – VIII) Industrial Aspects of Applied Chemistry (EN404)	
•		te: Friday, 12-04-2024 Max. Marks: 00 AM To 11:00 AM	: 40
Instru	ictio	<ul> <li>(All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> <li>Draw neat diagrams and give equations wherever necessary.</li> <li>Use of logarithmic table and calculator is allowed.</li> <li>(At. Wts.: H=1, C=12, O=16, N= 14, Na=23, CI = 35.5)</li> </ul>	
	Cho 1)	ose the correct alternatives from the options.In gravity separation method is used.a) blast furnaceb) reverberatory furnacec) Wilfley tabled) sintered furnace	08
:	2)	In the process of electroplating plays an important role.a) electrolysisb) electro-osmosisc) electrophoresisd) None of these	
	3)	Steel containing 0.3 to 0.6% carbon is called as steel.a) toolb) mildc) structurald) high carbon	
	4)	Sand, limestone and soda ash are the major ingredients ofa) glassb) ceramicsc) fertilizerd) cement	
	5)	Glass is of heat and electricity.a) conductorb) insulatorc) semiconductord) All of these	
	6)	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	
	7)	Superphosphate and triple phosphate are fertilizer.a) organicb) inorganicc) physicald) None of these	
	8)	The sharp edges of glass are removed by cutting, grinding and polishing these processes called as a) shaping b) fusion c) finiching d) appealing	

Q.2	Answers any four of the following.	08
	<ul> <li>a) What are the ceramics?</li> <li>b) Write the raw materials used in manufacture of urea.</li> <li>c) What are the steps involved in metallurgy?</li> <li>d) What is mean by throwing power?</li> <li>e) Write the factors which affects on fertility of the soil.</li> <li>f) Write the types of cement.</li> </ul>	
Q.3	<ul> <li>Write short notes on any two of the following.</li> <li>a) Qualities of ideal fertilizer</li> <li>b) Anodising</li> <li>c) Wet process</li> </ul>	08
Q.4	<ul> <li>Answers any two of the following.</li> <li>a) Explain in detail manufacturing process of urea.</li> <li>b) What is Ceramics? Explain the classification of ceramic.</li> <li>c) Describe in detail cleaning of article before electroplating.</li> </ul>	08
Q.5	<ul><li>Answers any one of the following.</li><li>a) Explain the different types of glass according to their uses in various field.</li></ul>	08

**b)** What are the steps involved in the extraction of metal from ore? Explain in detail blast furnace.

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

# March/April-2024 **MICROBIAL BIOTECHNOLOGY (Paper - VII)** Molecular Biology (EN405)

Day & Date: Saturday, 13-04-2024 Time: 09:00 AM To 11:00 AM

# Instructions: 1) All questions are compulsory.

2) Draw neat diagrams and give equations whenever necessary.

b)

Samuel B. Weiss

- 3) Figures to the right indicate full marks.
- 4) Use of logarithmic table and calculator is allowed.
  - (At. Wts.: H=1, C=12, O=16, N=14, Na=23, CI=35.5)

#### Choose the correct alternative and rewrite the following sentences. Q.1

- 1) RNA polymerase was discovered by
  - a) Darwin
  - c) Watson and Crick d) Nirenberg
- 2) Lac operon is an example of .
  - a) only positive regulation
  - b) only negative regulation
  - c) sometimes positive sometimes negative
  - d) both positive and negative regulation

# 3) The DNA polymerase involved in base excision repair is

- a) DNA polymerase  $\alpha$ b) DNA polymerase  $\beta$
- c) DNA polymerase  $\gamma$ d) DNA polymerase  $\sigma$
- 4) The enzyme photolyase is used in \_\_\_\_\_ repair mechanism. b) Photo reactivation
  - a) Base excision
  - c) SOS repair mechanism d) Nucleotide excision
- 5) The type of coiling in DNA is \_\_\_\_\_.
  - b) Left-handed a) Right-handed
    - c) Opposite d) Zig-zag

6) In DNA, the enzyme which breaks the H<sub>2</sub> bonds is .

- a) Ligase
- c) Helicase
- 7) DNA stands for
  - a) Deoxyribose Nucleic acids
  - c) diDeoxyribose Nucleic acids
- 8) DNA replication is \_\_\_\_\_.
  - a) conservative
  - b) semi-conservative and discontinuous
  - c) semi-conservative and semi-discontinuous
  - d) conservative and discontinuous
- b) Double Nucleic acids
- d) Nucleic acids

SLR-GC-41

Set

08

Max. Marks: 40

b) Topoisomerase

d) Polymerase

	S	LR-GC-41
Q.2	<ul> <li>Answer any Four of the following.</li> <li>a) Draw structure of DNA.</li> <li>b) Enlist properties of genetic code.</li> <li>c) Enlist silent features of DNA.</li> <li>d) Define Central Dogma.</li> <li>e) Define replication.</li> <li>f) Define Trp operon.</li> </ul>	08
Q.3	<ul> <li>Write short notes on any Two of the following.</li> <li>a) Write a note on eukaryotic RNA polymerase.</li> <li>b) Discuss in detail about DNA polymerase.</li> <li>c) Explain process of prokaryotic replication.</li> </ul>	08
Q.4	<ul> <li>Answer any Two of the following.</li> <li>a) Explain in detail about translation.</li> <li>b) Add a note on Lac operon.</li> <li>c) Define and explain Mismatch repair mechanism.</li> </ul>	08
Q.5	<ul> <li>Answer any One of the following.</li> <li>a) Define Transcription and write a note on eukaryotic Transcription.</li> <li>b) Explain in detail about process of Excision repair mechanism.</li> </ul>	08

Dav	& Da	ate: M	onday, 15-04-2024	nog	Max. Marks: 40	
	Time: 09:00 AM To 11:00 AM					
Instr	uctio	2	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full magnitude</li> <li>Draw neat labeled diagrams wher</li> </ol>			
Q.1			the following sentences by choos	ing	correct alternatives from 08	
	-	<b>en be</b> Tem	perature of the food is type	of fa	ctor involved in microbial growth.	
	-,		Intrinsic		Microbial	
		c)	Chemical	d)	Extrinsic	
	2)		o pink to whitish pink colour in resaz	urin	milk test indicates quality	
		of mi	irk. fair	b)	excellent	
		,	poor	d)		
	3)	,	is example of non-perishable food	,  .		
	-,		Milk		Cereals	
		c)	Egg	d)	None of these	
	4)	The	causative agent of Botulism is			
		,	A.flavus	b)	A.vanelandii	
		,	C.botulinum	,	B.anthrax	
	5)		nin enzymes mainly used in		-	
		a) c)	Butter Cheese	,	Ice-cream Yogurt	
	6)	,		,	<b>C</b>	
	6)		obial quality of milk is determined by Crowded plate		Caseinase	
		,	Amylase	d)		
	7)	The	high nutritive value of cheese is due	to	of the following.	
	,		high mineral contents		taste and flavor	
		c)	high protein content	d)	rancidity	
	8)		is freezing point of milk.		0.550.0	
		a)	1°C	b)	-0.55° C -100° C	
		c)	5° C	d)	-100-0	

# Seat No.

# Set Ρ B.Sc. (Entrepreneurship) (Semester - IV) (Old) (CBCS) Examination:

March/April-2024 MICROBIAL BIOTECHNOLOGY (Paper - VIII)

Food & Dairy Technology (EN406)

# SLR-GC-42 Q.2 Answer any four of the following. **08** c) Define Psychrophilic microorganisms.

- d) Homogenized Milk.
- e) Grading of Milk. f) Define Canning.
- Q.3

a) What is water activity? **b)** Define food poisoning.

- Attempt any two of the following. a) Describe in detail dye reduction test of milk.
  - b) Write a note on chemical preservatives used for preservation of food.
  - c) Describe the manufacturing of toned and flavored milk.

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

- a) Discuss in detail method of manufacture, packing, hardening and storage of Ice Cream.
- b) Describe in detail microbial spoilage of fish and poultry foods.
- c) Explain in brief methods of pasteurization.

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

- a) Describe in detail microbial spoilage of cereals and vegetables.
- b) Explain in brief composition and uses of cheese.

08

08

Seat	•		
No.			Set P
E	3.Sc.	(Entrepreneurship) (Semester March/Apr ENGLI	
		Business Engli	ılish (EN501)
		e: Friday, 05-04-2024 00 PM To 05:00 PM	Max. Marks: 40
Instr	uctio	<ul><li>ns: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full</li></ul>	ll marks.
Q.1	Mul <sup>:</sup> 1)	<b>tiple choice questions.</b> What was Della going to cook for the a) Cookies c) Bread	08 ne dinner? b) Chops d) Soup
	2)	The story "The Homecoming" is com a) Rabindranath Tagore c) Shashi Tharur	mposed by b) R. K. Narayan d) Arun Kolatkar
	3)	Who came to visit Phatik's mother? a) Cousin c) Granny	b) their uncle d) Grandfather
	4)	What was the solitary girl doing in the a) tilling the plants c) reaping the harvest	he field? b) watering d) planting
	5)	Who snatched the queen's mirror? a) Her daughter c) the King	<ul><li>b) Her friends</li><li>d) the new bride</li></ul>
	6)	Oliver Goldsmith is a/an nov a) Anglo-Irish c) Indian	ovelist. b) American d) Italian
	7)	Where did the two roads diverge? a) In green wood c) On the brown roads	<ul><li>b) In yellow wood</li><li>d) On the gray roads</li></ul>
	8)	"You must carry on your work" the pl a) You c) Must	phrasal verb from the sentence is b) Carry On d) Your Work
Q.2	Ans a) b) c) d) e) f)	wer the following questions. (Any F What was uncle's generous offer? What was the solitary reaper doing in What was Queen Gulnaar's desire? What led to Phatik's desire to go back What is communication? What is flexibility?	in the field?

### Q.3 Answer any One of the following.

- a)
- Why was Della sad in the beginning of the story "The Gift of the Magi"? What is significance of the two roads in the poem 'The Road Not Taken'? b)

## Q.4 Answer the following question.

What is importance of learning skills?

10

					SLR-GC-4	4
Seat No.					Set F	Ρ
B.	Sc.	(Ent		April-2024		
			nday, 12-05-2024 To 06:00 PM		Max. Marks: 8	30
Instru	ctior		All questions are compulso Figures to the right indicate			
Q.1	A)	Mult 1)	i <b>ple Choice Questions.</b> World Bank also known as a) WTO c) IBRD	 b) d)	1 IMF None of these	10
		2)	Capital Lease also known a a) Financial Lease c) Sale and Sale Back L	b)	Operating Lease Leverage Lease	
		3)	Working of Stock Exchange a) RBI c) SEBI	es in India is b) d)	controlled by Govt. of India IRDA	
		4)	<ul> <li>MIGA refers to</li> <li>a) Multinational Investment</li> <li>b) Multilateral Investment</li> <li>c) Multi-Level Investment</li> <li>d) Multiple Investment G</li> </ul>	it Guarantee it Guarantee	e Agency e Agency	
		5)	SEBI established on a) 1992 c) 1892	 b) d)	1994 1886	
		6)	<ul><li>Business Finance deals with</li><li>a) Managerial Problems</li><li>c) Administrative Problem</li></ul>	b)	Financial Problems All of above	
		7)	Trade credit is source of a) Long term Finance c) Short term Finance	 b) d)	Medium term Finance All of above	
		8)	A company can accept Pub a) One year c) Three years	blic deposits b) d)	for a maximum period of Two years Four years	
		9)	NSE Refers to a) National Stock Exchanc) National Share Exchance		National Super Exchange None of these	
		10)	The members of the stock a) Investors c) Brokers	exchange aı b) d)		

	В)	<ul> <li>Fill in the blanks/Definition/One sentence answer/One word answer/ Give the name/Predict the product.</li> <li>a) Full Form of IBRD</li> <li>b) Define Share.</li> <li>c) Define IDRs.</li> <li>d) Full form of SEBI</li> <li>e) Define Debentures.</li> <li>f) Full form of RBI</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following. Define venture capital. Define Business. Define E-Banking. Define financial planning. Define ADRs. Define FEMA. Define FEMA. Define working capital. Define Lease Finance. Define Capital Budgeting. Define Public Deposits.	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain objectives of Business finance.</li> <li>2) Explain steps in Financial Planning.</li> <li>3) Explain functions of stock exchange.</li> </ul>	10
	B)	<b>Write note/solve.</b> Explain role of SEBI in capital market.	06
Q.4	A)	<ul> <li>Answer any Two of the following.</li> <li>1) Explain methods of capital budgeting.</li> <li>2) Explain problems of Leasing in India.</li> <li>3) Explain importance of Business Finance.</li> </ul>	08
	B)	Describe the following. Explain working of BSE & NSE.	08
Q.5	Ans a) b) c)	w <b>er any Two of the following.</b> Explain types of Lease Financing. Explain sources of Business finance. Explain functions of Commercial Banks.	16

			Human Resource Mana	
Time	: 03:0	0 PM	dnesday, 10-04-2024 To 06:00 PM	Max. Marks: 80
instr	uction		All questions are compulsory. Figures to the right indicate full	marks.
Q.1	A)	<b>Cho</b> 1)	ose the correct alternatives fr A group of positions that have is called	rom the options. 10 similar duties, tasks & responsibilities
			a) Job c) Career	b) Business d) Entrepreneurship
		2)	a) Job Specification c) Job requirement	bb Analysis. b) Job Description d) Both A and B
		3)	Identifying the source of poten apply for the job is called Recr a) rejecting c) attracting	tial candidates and them to uitment. b) training d) all of the above
		4)	Promotion is a source a) external c) macro	Recruitment. b) internal d) none of the above
		5)	Campus selection is a a) external c) macro	source of recruitment. b) internal d) none of the above
		6)	is called	solve the production related issues b) production group d) quality circle
		7)	is the Last stage in C a) Resignation c) Withdrawal	areer planning. b) Resume building d) Negotiation
		8)	<ul> <li>When an employee is trained f is called</li> <li>a) talent management</li> <li>c) leadership development</li> </ul>	for a key position in the organization b) replacement planning d) succession Planning

# B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: March/April-2024

SLR-GC-45

Set Ρ

16

10

9)	is the assessment of	individual's performance in a
-	systematic way.	
	a) Systematic appraisal	b) The 360-Degree Appraisa
	c) Ranking Appraisal	d) Performance Appraisal

### 10) The compensation paid during the time of layoff is called \_\_\_\_\_.

- a) Dearness Allowance
- c) Retaining Allowance
- b) Servant Allowanced) Cash Allowance

# Fill in the blank/Definition/One sentence answer/one-word answer/ 06 Give the name/predict the product etc.

- 1) Management
- 2) Career
- 3) Perception
- 4) Selection
- 5) Internal Mobility
- 6) Demotions

### Q.2 Answer the following. (Any Eight)

- a) What is HRM?
- **b)** What is transfer?
- c) What is Allowance?
- d) What is Gratuity?
- e) What is Mobility?
- f) What is Training?
- g) What is Development?
- h) What is Selection?
- i) What is Job?

Q.4

j) What is Business?

# Q.3 A) Answer the following. (Any two) 1) Define Performance Appraisal and Purpose of Performance

- Appraisal?
- 2) Explain Elements of career development programme?
- 3) Define Promotion Purpose of Promotion?

# B) Short note/Solve. 06 Explain Transfer and Types of Transfer. A) Answer the following. (Any two) 08 1) Define HRM and Nature of HRM.

- 2) Define Recruitment and External Source of Recruitment.
- 3) Define selection Recent Trends in selection.

## B) Describe/Explain/Solve.

Explain career development and Steps in career development system.

# Q.5

- Answer the following. (Any Two)
  a) Explain HRM and its Functions and Importance?
  b) Define Need and objective of training.
  c) Define Selection and Steps in selection procedure.

	March/April-2024							
			Spectroscopic Met	thoc	ls (EN504)			
			lay, 12-04-2024 To 06:00 PM		Max. Marks: 80			
Instr	uctio	2) 3)	All questions are compulsory. Figures to the right indicate full m Draw neat labeled diagrams when Use of logarithmic table and calcu	reve	r necessary.			
Q.1	A)	<b>Cho</b> 1)	,		-			
		2)	, ,	and b) d)	an even or odd atomic number integral spin none of these			
		3)	,	trom b) d)	eter takes place on the basis of Charge Mass to charge ratio			
		4)		/ibrat b) d)	ion take plane different planes? Twisting Scissoring			
		5)	What is the wavelength range fo a) 400nm - 700 nm c) 0.01 nm to 10 nm	b)	' spectrum of light? 700 nm to 1mm 10 nm – 400 nm			
		6)	-	ernal b) d)	field is called deshielding None of these			
		7)		rome b) d)	eter? Ernest O. Lawrence Walter Kaufmann			
		8)	Unit of chemical shift is a) Hz c) Cps	b) d)	Ppm Unit less			
		9)	,		requency of bond increases  decreases All the above			
		10)	, .	epsilc b) d)	n is known as molar coefficient molar extinction coefficient			

Seat	
No.	

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

SLR-GC-46 Ρ

- c) molality
- d) molar extinction coefficient

Set

#### B) Answer in one sentence. What is mean by bathochrome? 1) Write the range of finger print region. 2) What is mean by J value? 3) Define equivalent proton. 4) What is mean by bar graph? 5) Draw the structure of TMS. 6) Solve any Eight of the following. 16 State the Hooks law. a) What is the basic principle of mass spectroscopy? b) What is mean by IR active transition? C) What mean by peak area? d) Explain fragment ion. e) What is mean by deshielding? f) Write any one example of rearrangement ion. g) Define sigma bond. h) What is mean by auxochrome? i) i) What is mean by spin spin splitting? A) Attempt any two of the following. 1) Calculate the fundamental mode of vibrations of methane and benzene. 2) Explain the Woodward - Fieser rules. 3) Comment on flipping the spin B) Write Short Note. 06 Use of mass spectroscopy in determination of structure of the compound. Answer any two of the following. A) 1) An organic compound with molecular formula C<sub>2</sub>H<sub>4</sub>O<sub>2</sub> shows IR absorption bonds at 3400 cm<sup>-1</sup> (broad) and 1700 cm<sup>-1</sup>. Deduce its structure. Discuss the effect of conjugation on the position of UV bands in dienes 2) or enones. 3) Why is TMS is used as an internal standard reference in NMR spectroscopy? **Describe the following:** B) 80 Sketch the mass spectrophotometer and explain in brief it's working. Q.5 Answer any two of the following. What are the scale used in NMR spectroscopy for the measurement of a) chemical shift? How they are related to each other?

- What is a finger print region in IR spectra? What are its advantages? Draw b) the schematic diagram of double beam IR spectrophotometer.
- Explain the bathaochromic shift, hypsochromic shift, hyperchromic shift and C) hypochromic shift.

### 10

### 80

### 16

# SLR-GC-46



# Q.2

# Q.3

# Q.4

B.Sc	B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: March/April-2024					
		Advances in Fermentation Technology (EN50	5)			
		aturday, 13-04-2024 / To 06:00 PM	Max. Marks: 80			
Instructi		<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> </ol>				
Q.1 A)	Mult 1)	tiple choice questions. Where is the World Intellectual Property Organization loc a) Geneva b) London c) Perth d) Florida	10 cated?			
	2)	Sterility testing can be done by using? a) Direct inoculation method b) Membrane filtration c) Pyrogen test d) All of the above	on method			
	3)	of the following is a NOT part of food allergy. a) Itchiness in mouth b) Runny nose c) Rash d) Fever				
	4)	What does Trademark protect? a) Logo, names and brands b) An Invention c) Work of art d) None of these				
	5)	<ul> <li>is mean by Idiophase.</li> <li>a) Production of waste material</li> <li>b) Production of topical product</li> <li>c) Production of primary metabolites</li> <li>d) Production of secondary metabolites</li> </ul>				
	6)	of the following is not probiotic. a) Fungi b) E. coli c) Saccharomyces cerevisiae d) Lactobacillus				
	7)	Under which type of agreement royalty is paid on the bas a) Mining b) Patenting c) Copyright d) Licensing	sis of sale			
	8)	is not vegetable or fruit based fermented product? a) Wine b) Sauerkraut c) Beer d) Vinegar	)			
	9)	Anaerobic respiration by yeast product a) CO <sub>2</sub> b) Wine and Beer c) Alcohol d) All of above				
	10)	The main objective of quality assurance is a) Proof of fitness of product b) Inspection of quality of product c) Quality conformance				

Seat No.

- c) Quality conformanced) Customer satisfaction

Set P

	B)	<ul> <li>Fill in the blank/Definition/One sentence answer /one-word answer /Give the name /predict the product ete.</li> <li>1) Define Trade secret.</li> <li>2) Describe Copyright.</li> <li>3) Describe Virus.</li> <li>4) Describe Antibody</li> <li>5) Describe Vinegar.</li> <li>6) Describe Layout design.</li> </ul>	06
Q.2	a) b)	Write note on Test for allergy. Write note on Product recall. Write note on WTO. Write note on Biosecurity. Explain in brief Vectors. Write note on Good laboratory practices (GLP) Explain in brief Pyrogen. Explain in brief Plant variety. Write note on Recombinant Protein. Define Acetone.	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain Good manufacturing practices.</li> <li>2) Describe Biosafety levels.</li> <li>3) Explain Farmer's Right Act.</li> </ul>	10
	B)	Short note/Solve. Explain Pre-clinical and clinical trials.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Define Natural bio preservatives with Bacteriocin.</li> <li>2) Describe Documentation and production in laboratory.</li> <li>3) History of Patent protection.</li> </ul>	08
	B)	<b>Describe /Explain /Solve.</b> Describe IPR and explain trademarks, Copyrights, Geographical Indication.	08
Q.5	Atte a) b)	<b>mpt any Two of the following.</b> Describe in detail Biopolymers with Xanthan gum production. Explain Mushroom Cultivation.	16

c) Explain Production of solvents with Glycerol and Butanol.

Seat No.       Set       P         B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: March/April-2024 Wine Technology (EN506)       Max. Marks: 80         Day & Date: Monday, 15-04-2024 Wine Technology (EN506)       Max. Marks: 80         Day & Date: Monday, 15-04-2024 Wine Technology (EN506)       Max. Marks: 80         Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat labeled diagrams wherever necessary.       10         1)       The process involved in wine making is called						
March/April-2024 Wine Technology (EN506)         Day & Date: Monday, 15-04-2024       Max. Marks: 80         Time: 03:00 PM To 06:00 PM       Max. Marks: 80         Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat labeled diagrams wherever necessary.       10         Q.1 A)       Choose the correct alternative and rewrite the sentences again. a) Distillation       10         1)       The process involved in wine making is called						Set P
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				, <b>-</b>	u)	Crusileu grapes
10) is used for wine making.			10)		<b>۲</b>	lookfruito
a) Rice b) Jackfruits c) Pineapple d) Grape juice					,	

c) Pineapple d) Grape juice

	B)	<ul> <li>Fill in the blank/Definition/One sentence answer /One word answer /Give the name /Predict the product etc.</li> <li>1) Define Alcoholic beverage.</li> <li>2) Define fermentation.</li> <li>3) Define Wort.</li> <li>4) What is Brewing?</li> <li>5) Define Clarification of wine.</li> <li>6) Define pH.</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following. Importance of wine Role of Saccharomyces cerevisiae in wine making. Fermenter Tasters What is spritz? What is the significance of Sorting in wine making? What is Sweetening? What is Organic wine? What is Mouth-feel sensation? Enlist different types of wines.	16
Q.3	A)	<ul> <li>Attempt Any Two of the Following.</li> <li>1) What is Aging of wine? Discuss various effects of Aging.</li> <li>2) Clarification of wine.</li> <li>3) Discuss stabilization of wine.</li> </ul>	10
	B)	<b>Short note/Solve.</b> Bag-in box container.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Use of various containers in wine storage.</li> <li>2) Design of Fermenters used in wine fermentation.</li> <li>3) Sensory analysis of wine.</li> </ul>	08
	B)	<b>Describe.</b> Economic and health benefits of wine	08
Q.5	Atte a) b) c)	<b>empt any Two of the following.</b> Factors affecting taste perception of wine Must clarification Role of oak barrels in Aging of wine	16

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Seat No.						Se	et	Ρ
B	B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April-2024 ENGLISH Literary Mindscapes - I (EN601)							
			esday, 16-04-20 To 05:00 PM	-		Max. Ma	rks	: 40
Instru	ucti		) All questions a ) Figures to the			KS.		
Q.1			<b>he following by</b> did Robert find v book money	•				08
	2)		did Askiono's w he lost his hair he became ill	ife see in hei	r dream a b) d)	bout Askiono's hair? his hair had become gray he got arrested		
	3)	What a) c)	are names of th Joss & Kady Jade & Katie	e children fro	om the ste b) d)	ory' Growing up'? Jane & Karli Jenny & Kate		
	4)	How r a) c)	many children ar One Three	e listening to	b the stor b) d)	y from the poem 'Sita'? Two Four		
	5)	The p a) c)	oem "My Last d Alexander Pop Robert Brownir	е	omposed b) d)			
	6)	What a) c)	are the things o The sun and th Flowers	•	ntioned in b) d)	the poem 'Ode to Beauty'? Young trees and streams All of the above		
	7)	He we the bl a) c)		ce to look for	<sup>-</sup> his lost k b) d)	keys. (choose correct adverb to i backside gone back	n	
	8)	Riya s a) b) c)	said," I loved to r Riya said I love Riya said that s Riya said that s Biya said sha l	e reading she loved to she is loving	read. to read.	direct speech)		

Riya said she loves reading. d)

Q.2	<ul> <li>Write the answers in short. (Any Four)</li> <li>a) Why was the Quick family garden wild and carefree?</li> <li>b) Why did Askionov leave the inn early?</li> <li>c) What is the tragic story told by the narrator from the poem 'Sita'?</li> <li>d) Describe the personality of the duchess.</li> <li>e) Why is "Ode to Beauty" considered to be romantic poem?</li> <li>f) Who do you think are 'our best' that poet refers to in the poem 'Life'?</li> </ul>	12
Q.3	<ul> <li>Answer the following (Any One)</li> <li>a) Explain what is information literacy &amp; its importance?</li> <li>b) What is media literacy and what is its importance?</li> </ul>	10
Q.4	<b>Answer the following question.</b> What are life skills? Explain in detail.	10

Max. Marks: 80

# No. B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April-2024

International Business (EN602)

Day & Date: Thursday, 18-04-2024 Time: 03:00 PM To 06:00 PM

Seat

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 calculator is allowed.

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

- David Ricardo presented the theory of international trade called: 1)
  - a) Theory of absolute advantage
    - b) Theory of comparative advantage
    - c) Mercantilism
    - d) Factor endowment theory

#### When an international firm follows a strategy of choosing only from 2) the nationals of Parent country, it is called \_

- a) Polycentric c) Geocentric
- b) Ethnocentric
- d) Regiocentric
- Bill of Lading is issued by the \_\_\_\_ 3)
  - a) Captain of the vessel b) Shipping company
  - c) Customs authorities d) Consignor
- provides the details of number of packages, quantity packed in 4) each of them, the weight and measurement of each package.
  - a) Packing list c) Mate's receipt
- b) Bill of lading d) Bill of exchange

Balance of Payment of a country includes 5)

- b) Current Account a) Capital Account
- c) Official Reserve Account d) All the above
- A tax imposed on certain type of imported goods is 6)
  - a) A tariff
- b) A surcharge
- c) A goods and services tax d) A quota
- 7) Which is an Indian multinational company?
  - a) Unilever b) Bata
  - c) Nestle d) ITC
- NAFTA is an example of 8)
  - a) Common market b) Customers union
  - d) Free Trade Area c) Economic community
- 9) Build, operate and transfer is the basic principle of .
  - a) Contract Manufacturing c) Franchising
- b) Licensing d) Turnkey project

06

16

- 10) SAP SE is \_\_\_\_\_ multinational software company.
  - a) Indian b) Chinese
  - c) German d) American

### B) Give one word/parse/term for the following statement.

- 1) Removal or reduction of restrictions or barriers on the free exchange of goods between nations.
- 2) Trade between two or more countries.
- 3) A letter from a bank guaranteeing that a buyer's payment to a seller will be received on time and for the correct amount.
- 4) A statement of all transactions made between entities in one country and the rest of the world over a defined period.
- 5) A project, in which one is designed, developed and equipped with all facilities by a company under a contract. It is handed over to a buyer when it becomes ready to operate business.
- 6) A region in which a group of countries has signed a free trade agreement and maintain little or no barriers to trade in the form of tariffs or quotas between each other.

### Q.2 Solve any Eight of the following.

- a) What is bill of lading?
- b) What is Certificate of Origin?
- c) What is licensing?
- d) Define Mercantilism.
- e) Define MNCs.
- f) Explain Tariff.
- g) Explain Open Account.
- h) What is factoring?
- i) Define Joint Venture.
- j) Explain Common Market.

Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Explain absolute cost advantage theory.</li> <li>2) Reasons for disequilibrium in Balance of Payment</li> <li>3) Importance of international business</li> </ul>	10
	B)	Write Short note. Explain factors that contributed for the growth of MNCs in India.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Drivers of globalisation</li> <li>2) Role of World bank in economic development</li> <li>3) Explain components of Balance of Payment.</li> </ul>	08
	B)	Describe Import/Export procedure.	08
Q.5	Atte	empt any Two of the following.	16

- a) Briefly explain modes of entering into international business.
- **b)** Explain advantages & disadvantages of MNCs.
- c) Explain objectives and functions of WTO.

NO.						
B	B.Sc.	(Entre	March/Apr	ʻil-2		
			Organizational Be	nav	· /	
			sday, 24-04-2024 06:00 PM		Max. Marks	s: 80
Instru	uction	2) Fig	questions are compulsory. Jures to the right indicate full r aw neat labeled diagrams who			
Q.1	A) (	,	the correct alternative and		•	10
Q. 1	•	1) EDI a) b) c)	stands for Electronic Data Interchange Easy Data Interchange Effective Data Interchange Era data interchange		ne the sentences again.	10
	4	2) a) c)	was a pioneering theorist in Edward Tolman Ivan Pavlov		field of Cognitive Psychology. B. F. Skinner Douglas McGregor	
	3	,	is/are corrects problems of MDs attitude People's attitude Built in rules of organization Courts of law		flict.	
	2	4) One a) c)		b)	es to reducing conflict is Employee status Authority	
	ţ		_ explains internal processes Equity Theory Goal Attain Theory	b)	choice among different behaviors. Expectancy Theory Goal Setting Theory	
	6	́a)	ndividual's behavior is caused Family help Society's response		Attitudes All	
	7	́a)	tands for Easy Payment Electronic Payment	,	Earn Payment Era Payment	
	8	3) a) c)	_ is the key word in understa Control Process		g organization structure? Change Delegation	
	ę	9) a) c)	_advocated that humans are Maslow Elton mayo		entially motivated by levels of needs. Follet Ivan Pavlov	
	1(		es affecting organizational be People		or are Environment	

b) Environmentd) All of these a) Peoplec) Technology

SLR-GC-51

Set P

# Seat No.

# C

#### B) Fill in the blanks.

- 1) The least used communication channel in an organization is usually
  - a) Upward
  - c) Diagonal
- 2) Group created by managerial decision in order to accomplishment stated goal of the organization are called
  - a) Formal Group c) Task Group
- b) Informal Group d) Interest Group

b) Downward

d) Horizontal

- 3) is the force of action or motivation.
  - a) Behavior b) Stimulus c) Perception
    - d) Attitude
- A process of receiving, selection, organizing, interpreting, checking and reacting to sensory stimuli or data so as to form a meaningful and coherent picture of the worlds is
  - a) Attitude c) Perception
- Thinking b) d) Communication
- 5) Organization Behavior is
- 6) Organizational Behavior is the study of \_\_\_\_\_ in the organization.

#### Solve Any Eight of the following. Q.2

- E-Payment a)
- Job satisfaction. b)
- EDI C)

Q.3

A)

- Learning d)
- e) Attitude
- Perception f)
- Psychology in OB g)
- Sociology in OB h)
- Anthropology in OB i)
- Personality j)

### 1) What is politics? Explain types and ethics of politics. 2) State the process of perception? Explain Nature and scope of OB. Explain types of groups. 06 B)

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

- 1) Describe importance of Motivation.
- 2) Explain life expectancy theory?

Answer any two of the following.

- 3) Write note on Trait Theory.
- Internet monetary payment and security requirements. B)

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

- Explain learning theory. a)
- What is stress? Explain causes of stress? b)
- What is OB? Evolution of OB. C)

SLR-GC-51

06

16

10

80

**08** 

Set

# Seat No.

# B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) **Examination: March/April-2024 Techniques in Industrial Chemistry (EN604)**

Day & Date: Thursday, 25-04-2024 Time: 03:00 PM To 06:00 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 table and calculators is allowed.

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

1)

- Natural zeolite are \_\_\_\_\_.
  - b) a) porous c) non-durable
- amorphous possess gel structure d)
- 2) is basic material of the paper used in paper chromatography.
  - a) Cotton b)
  - c) Pulp d)
- The following extinguisher is suitable for cotton or other textile fire 3)
  - a) Water b)
  - c) Soda acid d)
- What apparatus is used in distillation? 4)
  - a) Distillation flask, condenser, collection vessel
    - b) Distillation flask, condenser
    - c) Condenser, collection vessel
    - d) Distillation flask, column

#### Biocatalytical reactions are catalysed by 5)

- a) Enzymes b) Protein
- c) Carbohydrates d) Alcohols
- Titanium and aluminium materials can be classified under which of 6) the following categories?
  - С a) A b)
  - c) D B d)
- 7) What does high reflux ratio mean?
  - a) Collection rate will be higher
  - b) Lower purity of the distillate
  - c) Higher purity of distillate
  - d) Does not depend on purity and collection rate
- Which of the following colors allows you to identify a foam fire extinguisher? 8)
  - a) Blue Red b) c) Yellow d) Cream
- 9) is commonly used adsorbent in column chromatography.
  - a) Na<sub>2</sub>CO<sub>3</sub> Na<sub>2</sub>HCO<sub>3</sub> b)
  - c)  $Na_2C_2O_3$ NaOH d)

Max. Marks: 80

- Cellulose
- None of these
- Foam
- Dry chemicals

		<ul> <li>10) Fire extinguishers that contain have a red band located above the a) carbon dioxide</li> <li>b) Foam</li> <li>c) wet chemicals</li> <li>d) Water</li> </ul>	m.
	В)	<ul> <li>Answer in one sentence.</li> <li>1) Write any one name of zeolite.</li> <li>2) Which mobile phase is used in paper chromatography?</li> <li>3) Write any two name of enzymes.</li> <li>4) Give the any one example of type fire A.</li> <li>5) Write any one name of fractionating column.</li> <li>6) Which gases are used as carrier gas in gas chromatography?</li> </ul>	06
Q.2	Solv a) b) c) d) e) f) g) h) i) j)	ve any Eight of the following. What is the basic principle of chromatographic process? Write reduction reaction of benzoquinone to hydroquinone. Mention the factors affecting on enzyme activity. Write the principle of continuous distillation. Which materials are used in class B fire extinguishers? What is the mobile and stationary phase in paper chromatography? How will you prepare benzoic acid from toluene? Which materials are used in class D fire extinguishers? Which materials are used in class D fire extinguishers? Draw the neat labelled diagram of continuous distillation.	16
Q.3	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Describe the Soda acid extinguishers.</li> <li>2) Write the application of the gas chromatography.</li> <li>3) Explain the separation of acetone and water by fraction distillation.</li> </ul>	10
	B)	Write short note. Green principles.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Write the working of the vacuum distillation.</li> <li>2) Discuss the classification of chromatography.</li> <li>3) Write any two examples of microwave assisted reaction.</li> </ul>	08
	B)	<b>Describe the following.</b> Write the experimental technique for column chromatography.	80
Q.5	Atte a) b) c)	empt any Two of the following. Describe Halon-1301 fire extinguisher. Draw the neat labelled diagram of steam distillation and explain it in detail. What are the zeolites? How they are obtained? Explain its structure and uses.	16

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Seat No.					Set	Ρ
В	B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April-2024 Genetic Engineering (EN605)					
			nday, 22-04-2024 To 06:00 PM		Max. Marks	: 80
Instru	ictio		All questions are compulsory. ) Figures to the right indicate ful	l ma	rks.	
Q.1	A)	Cho 1)	ose the correct alternative. Amino benzyloxymethyl filter p a) Western blotting c) Northern blotting	b)		10
		2)	<ul> <li>Cosmids lack</li> <li>a) Genes coding for viral problem</li> <li>b) Origin of replication</li> <li>c) Marker genes coding for</li> <li>d) Cleavage site for the inset</li> </ul>	replic		
		3)	Size of the DNA that can be a a) 50kb c) 40-50kb	b)	bda phage is 35-53kb Any Size	
		4)	Molecular marker included a) RFLP c) AFLP		RAPD All of these	
		5)	The set of DNAs generated by is called a) RFLP c) AFLP		g random primers in PCR reaction RAPD In situ hybridization	
		6)	Genomic library can be prepar a) PCR technique c) colony hybridization	b)	Shotgun method	
		7)	A Method used to insert DNA electrical impulses is known as a) Biolistics c) Liposome	s	cules into the cell by using short  Microinjection Electroporation	
		8)	, ,	in ge and	enetic engineering are polymerase	
		9)	Transgenic plants are having _ a) No gene c) Genes have no function		Genes in transposition Genes of other organism	

		<ul> <li>10) Which of the following bacterium is considered as 'Natural genetic engineering'?</li> <li>a) Agrobacterium tumefaciens</li> <li>b) Agrobacterium radiobactor</li> <li>c) Pseudomonas putida</li> <li>d) Thermos aquatics</li> </ul>	
	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) Baculovirus</li> <li>2) Liposome</li> <li>3) DNA Ligases</li> <li>4) hGH</li> <li>5) Agarose gel electroporation</li> <li>6) Cosmid</li> </ul>	06
Q.2	a) b)	ve any Eight of the following. Write note on Recombinant vaccine. Write note on BACs. Explain in brief pBR. Write note on DNA. Explain in brief Kinases. Write note on Gene delivery. Explain in brief PCR. Explain in brief DNA denaturation. Write note on Phosphatases. Write note RNA.	16
Q.3	A)	<ul> <li>Attempt Any Two of the Following.</li> <li>1) Mode of action in Restriction modification system.</li> <li>2) Write note on Automated sequencing.</li> <li>3) Write note on M13 based vector.</li> </ul>	10
	B)	<b>Short note/Solve.</b> Write short note on Protein Analysis with applications.	06
Q.4	A)	<ul> <li>Attempt any Two of the following.</li> <li>1) Write Bacteriophage lambda.</li> <li>2) Uses of linkers and adaptors.</li> <li>3) Genomic DNA probes.</li> </ul>	08
	B)	<b>Describe/Explain/Solve.</b> Explain Dot blot technique.	08
Q.5	Atte a) b) c)	<b>Empt any Two of the following.</b> Describe in detail Mammalian SV40 based expression vector. Describe in detail DNA microarray analysis. Explain Protein engineering and its site directed mutagenesis.	16

Seat	
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# B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April-2024

**Techniques in Plant Tissue Culture (EN606)** 

Day & Date: Monday, 22-04-2024 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 labeled diagrams wherever necessary.

# Q.1 A) Choose the correct alternative.

- 1) Addition of \_\_\_\_\_ avoids many of the contamination problems in animal culture media.
  - a) protein
  - c) vitamin d) antibiotic

### 2) Heat resistant media are sterilized by \_

- a) hot air oven
- c) filtration
- 3) Liquid media are known as \_\_\_\_\_
  - a) broth b) slant
    - c) agar d) stab

# 4) \_\_\_\_\_ is advantage of using serum in culture media.

- a) Source of contamination by viruses, mycoplasma, prions
- b) Composition varies a lot
- c) Increases cost of downstream processing
- d) Binds and neutralizes toxins
- 5) The growth of animal cells *in vitro*, in a suitable culture medium is called \_\_\_\_\_.
  - a) Gene expression
- b) Transgenesisd) Plant tissue culture

b) carbohydrate

b) autoclave

d) microscope

- c) Animal cell culture
- 6) Animal cell synchronization by chemical blockade is achieved using \_\_\_\_\_.
  - a) Nocodazolec) Colchicine
- b) Roscovitine
- d) All of these

7) \_\_\_\_\_ is the father of plant tissue culture.

- a) Alexander Fleming
- c) Kary Mullis
- b) Gottlieb Haberlandt
- d) Leeuwenhoek
- Auxins and Cytokinins are \_\_\_\_\_
   a) Antibiotics
  - s b) Salts
  - c) Energy sources d) Growth hormones
- 9) The unorganized dividing mass of tissue produced during tissue culture process is known as \_\_\_\_\_.
  - a) tissue b) callus
  - c) explant d) organ

Set F

Max. Marks: 80

SLR-GC-54

		<ul> <li>10) is the culture of excised young leaf primordia or immature young leaf of the shoot apex in a chemically defined medium.</li> <li>a) Shoot tip culture</li> <li>b) Anther culture</li> <li>c) Root culture</li> <li>d) Leaf culture</li> </ul>	
	B)	<ul> <li>Answer in one sentence.</li> <li>1) What is cell?</li> <li>2) What is subculture?</li> <li>3) What is protoplast?</li> <li>4) What is gametic cell?</li> <li>5) What is hemocytometer?</li> <li>6) What is somatic cell?</li> </ul>	06
Q.2	An: a) b) c) d) e) f) g) h) i)	swer any Eight of the following. What is balanced salt solution? What is sterilization? What is totipotency? What is suspension? What is protoplast fusion? What is protoplast fusion? What is root tip culture? What is broth culture? What is blood serum? What is PGR? What is cell theory?	16
Q.3	A)	<ul> <li>Answer any Two of the following.</li> <li>1) Explain in detail physicochemical properties of media.</li> <li>2) Describe in detail cell synchronization in animal tissue culture.</li> <li>3) Write in detail callus culture.</li> </ul>	10
	B)	Write an essay on aseptic techniques.	06
Q.4	A)	<ul> <li>Answer any Two of the following.</li> <li>1) Explain in brief leaf Culture.</li> <li>2) Describe in short shoot tip Culture.</li> <li>3) Write in short cell counting and monitoring.</li> </ul>	08
	B)	Write an essay on micropropagation.	08
Q.5	Ans a) b) c)	<b>swer any Two of the following.</b> Explain in detail nutritional requirements of the explants. Describe in detail suspension culture. Write in detail equipment and instruments used in tissue culture laboratory	16