Seat No.	:		Set	P
I	B.Sc.	c. (Entrepreneurship) (Semester - I) (Old) (CBCS) March/April - 2025 English (Comp.) Communication Skill (EN1101)	Examination:	
•		ate: Thursday, 08-May-2025 :00 PM To 02:00 PM	Max. Marks:	: 40
Instr	uctio	<ul><li>ons: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>		
Q.1	Cho	oose the correct alternatives from the options. Identify prefix from following word. Miscommunication a) mis- b) communicate		08
		c) communication d) -tion		
	2)	Identify suffix from following word. Unimportantly a) un- b) import c) important d) -ly		
	3)	A word which indicates action & state of being is known a) Pronoun b) Preposition c) Noun d) Verb	/n as	
	4)	Rabindranath Tagore got The Noble Prize for Literatu a) 1910 b) 1911 c) 1912 d) 1913	re in	
	5)	Short story "A Portrait of a lady" was composed by a) Khushwant Singh b) Shakespeare c) Rabindranath Tagore d) Vijaya Wad	<u> </u> .	
	6)	What did grandmother fetch for the author before schools b) Shoes c) Uniform d) Wooden slate	ool?	
	7)	Which flowers competed for the title?  a) Lily & daisy b) Rose and daisy c) Lily and rose d) Rose and tulips		
	8)	How many times does the son disobey his father in th a) Five b) Four c) Eight d) Seven	e poem?	

Q.2	Wri	te the answer in short. (Any Four)	12
	a)	What is the context of Gandhi's talk on religion?	
	b)	What kind of relationship did the author have with his grandmother?	
	c)	How did the grandmother spend her time at new place?	
	d)	Discuss the theme of pride and culture in the poem 'The Lotus'.	
	e)	Discuss the poet's state of mind in the poem' Let Me Not Pray To Be	
	•	Sheltered From Dangers?	
	f)	Discuss the theme of guilt in the poem 'The Toys'?	
Q.3	Ans	swer the following questions. (Any One)	10
	a)	Write in detail the process of communication.	
	•	OR	
	b)	Write in detail about the channels of communication.	
Q.4	Exp	plain any five principles of effective communication?	10

Seat	Sat	D
No.	Set	

### B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination: March/April - 2025 Principles of Entrepreneurship (Paper - I) (EN1102)

		Pr	inciples of Entrepreneu	rship	o (Paper - I) (EN110	2)
-			day, 09-May-2025 To 02:00 PM			Max. Marks: 40
Instr	uctions	2) [	All questions are compulsor Draw neat labelled diagram Figures to right indicate full	s whe	•	
Q.1	Choo 1)		ne correct alternative and _ is the basic feature of ent	repre	neur.	ain. 08
		-	Risk Bearing Co-ordination	b) d)	Innovation Motivation	
	2)	a)	repreneurial competencies Self-Assessment Competency recognition	b)	Motivation	
	3)	a)	or objectives of business is Profit Maximizations a & b		Wealth maximization None of these	
	4)	a)	riers to Entrepreneurship is Lack of seed capital Lack of technical skill	b)	Lack of market know All the above	ledge
	5)	a) b) c)	e of Entrepreneurs are Idea generation Implementation of mechar Systematic innovation All of the above		skill	
	6)	a) c)	_ and insurance are basic a Manufacturing Trading	aids to b) d)	o trade and commerce Banking Service	<b>)</b> .
	7)		repreneurship is proce Creative process Real process	ess. b) d)	Imaginative process None of these	
	8)		most suitable type of entre India Innovating Fabian	prene b) d)	eur for a developing ed Drone Imitative	conomy

<b>Q.2</b>	Answ	ver the following. (Any Four)	08
	a)	Define Entrepreneurship.	
	b)	Define Business.	
	c)	Define Economic development.	
	<b>e</b> )	Full form of SIDBI & IDBI.	
	f)	Full form of NABARD.	
	g)	Full form of SIDCO.	
Q.3	Write	short note. (Any Two)	08
	a)	Explain Function of Entrepreneur.	
	b)	Explain Concept of Innovation.	
	c)	Define Private Ltd Company.	
Q.4	Answ	ver the following. (Any Two)	08
	a)	Explain Barriers to entrepreneurship.	
	•	Explain the concept of HUF.	
	c)	Explain entrepreneurship development process.	
Q.5	Answ	ver the following. (Any One)	08
	a)	Explain problems faced by Rural Entrepreneurs.	
	b)	Define women entrepreneurship. Explain problems of women	
	•	entrepreneurs.	

Seat No.		Set	P
		. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination:  March/April - 2025 lamental of Economics and Accountancy (Paper - II) (EN1103)	
,		te: Saturday, 10-May-2025 Max. Marks: 00 PM To 02:00 PM	40
Instr	uctic	<ul> <li>2) Draw neat diagrams and give equations wherever necessary.</li> <li>3) Figures to the right indicate full marks.</li> <li>4) Use of logarithmic table and calculator is allowed.</li> </ul>	
Q.1	Mult	Eiple choice questions  Economics is a science which deals with  a) matters and substance b) chemical and reactions c) numbers and combinations d) human wants and resources	80
	2)	not a factor of production. a) Land b) Labour c) Capital d) Bank loan	
	3)	In economics, desire backed by purchasing power is known as a) Utility b) Demand c) Consumption d) Supply	
	4)	There is/are number of sellers under perfect competition. a) Two b) Three c) Four d) Large	
	5)	According to concepts, every business transaction has two	

b)

Amount which is not recoverable from customer is known as \_\_\_\_\_

A book containing a chronological record of business transaction &

b)

d)

Materiality

d) Dual aspect

Debtors

b) Ledger

Bad debts

d) Balance sheet

aspects.

a)

6)

7)

a) Going concern

c) Business entity

original record is \_\_\_\_\_

c) Trial Balance

Debts

c) Loans

a) Journal

- 8) True & fair profit and loss of a business know by \_\_\_\_\_a) Profit and Loss a/cb) Balance sheet
  - c) Trail balance d) Journal entry

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

a) Define Economics.

- b) Define Economics
- **b)** Define Market.
- c) Define Monopoly Market.
- **d)** Define Accountancy.
- e) What is Cash Book?
- f) What do you mean by Capital?

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

08

80

- a) Law and Schedule of demand
- **b)** Features of perfect competition market
- c) Golden Rules of Accounting

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

80

- a) Explain any four accounting concepts.
- b) Discuss importance of elasticity of demand.
- c) From the following information prepare Trading a/c of Star Traders for the year ended 31st March, 2023.

<b>Particulars</b>	Debit (Rs)	Particulars	Credit (Rs)
Opening stock	22,000	Sales	1,50,000
Purchases	1,40,000	Purchases Returns	30,000
Carriage Inward	2,000		
Royalty	11,000		
Wages	16,000		
Sales Return	30,000		

Note: Closing Stock was Rs. 46,000

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

80

- a) What is elasticity of demand? Explain types of elasticity of demand.
- **b)** Journalize following transaction in the Books of Bharat Grocery Stores, Solapur.

Date	Particular	Amount (Rs)
01.10.2023	Business started business with cash	1,00,000
04.10.2023	Purchase goods for cash	60,000
05.10.2023	Deposited cash into bank	10,000
09.10.2023	Sold goods for cash	25,000
19.10.2023	Sold goods to Miss. Prachi on credit	10,000
25.10.2023	Paid Salary	5,000
30.10.2023	Pain Rent	3,000

Seat No.						Set	P
F	3.Sc.	(Entrepreneur	ship) (Semester March/April	_		CBCS) Examination:	
	F	undamentals o	of Inorganic Che	mi	stry (Pa	per - I) (EN1104)	
,		e: Tuesday, 13-N 0 PM To 02:00 F	•			Max. Marks:	40
Instr	uctio	, .	ons are compulsory the right indicate	•	marks.		
Q.1	Multi	ple choice que	stions				08
	1)	By combination <ul> <li>a) SP<sup>2</sup></li> <li>c) dSP<sup>2</sup></li> </ul>		orbit b) d)	al gets _ SP <sup>3</sup> SP	hybridization.	
	2)	Cations & anion a) Covalent bo c) Ordinate bo	ond	b)	Co-ordir	n crystalline solids. nate bond tatic force of attraction	
	3)	Out of following combining orbita a) Antibonding c) a & b	als. J	bita b) d)	ls having Bonding Non- bo	_	
	4)	Caesium chlorid a) 1:1 c) 1:3		sto b) d)	ichiometr 1:2 1:4	ry.	
	5)	Valency of atom by any atom. a) Unpaired c) Non-bondir	·	ber b) d)	of Paired a & c	electrons that possesse	d
	6)	a) $KNO_3$ c) $FeCl_3$		b) d)	NaCl ZnCl <sub>2</sub>		
	7)	When S-orbital called ove a) S-S c) S-Px		b)	ith P- ork Px SPx	oital of another atom	
	8)	Radius ratio is the a) cation c) a + b		b)	tion to ra anion a x b	dius of	

Q.2	Ans	wer any four of the following.	08
	a) b) c) d) e) f)	Define covalent bond, Give its example.  Draw structure of unit cell of CsCl.  Define antibonding molecular orbital.  Define ionic bond. Give its example.  Give the bond angle in BeCl <sub>2</sub> & CH <sub>4</sub> .  Draw structure of NaCl.	
Q.3	Write a) b) c)	te short notes on any two of the following.  Bond Order and stability of molecule $S - S$ overlap  Hybridisation in $BF_3$ molecule	08
Q.4	Ans a) b) c)	ewer any two of the following.  Explain the formation of ionic bond.  Rules for co-valent bond formation.  State characteristic of ionic compounds.	08
Q.5	Ans a) b)	swer any one of the following Explain the formation of $\mathrm{CH_4}$ molecule on the basis of hybrization. How Structure of NaCl is explained Born-Haber Cycle.	08

Seat No.						Se	t P
В		•	-	March/A	pril - 2		:
•	Date	e: W		- 14-May-2025	nemis	try (Paper–II) (EN1105) Max. Mark	(s: 40
		ns: 1	) All questi	ons are compuls the right indica	-	marks.	
		i <b>ple</b> ( Gen a)	choice que	_	b)	$C_nH_n$ $C_nH_{2n}$	08
2	2)		Wurtz read		b)	rm alkane, the reaction is Kolbe rea <sup>n</sup> None of these	_
3	3)	Ben a) c)	zene has _ 10 8	$_{}\sigma$ bonds.	b) d)	12 6	
4	4)		zene is antiaromat pseudo arc		b) d)	aromatic non aromatic	
	5)	a) c)	metal is u P Na	used in Lassaigr	nes tes b) d)	t for detection of elements. K Mg	
(	6)	Kjelo a) c)	dahl's meth P N	od is used for e		K	
7	7)	Sulp a) c)	hur in orga Kjeldahl's Platinichlo	•		ated by method. Hess Carius	
8	8)	_	anic compo gen is 100 40		b) d)	10% H, the percentage of 60 0	

Q.2	Ans	wer any four of the following.	08
	a)	Name the following alkenes.  CH-CH <sub>3</sub>	
	b) c) d) e)	a) $CH_3$ - $CH = CH_2$ b) $CH_3 - CH$ Draw resonating structures of benzene. State Kolbe's reaction for preparation of alkene. State & explain Huckel's rule. Draw neat labelled diagram for estimation of carbon and hydrogen by combustion method. Define molecular formula.	
Q.3	Wright a) b) c)	te short notes on any two of the following.  Molecular orbital theory of benzene.  Dehydration of lower alcohols.  Polymerization of ethylene & propylene.	08
Q.4	Ans a) b) c)	wer any two of the following.  How will you prepare cyclopentane by distillation of calcium or barium salt of dicarboxylic acid?  How will you estimate halogen by Carius method?  Give classification of dienes.	08
Q.5	Ans a) b)	wer any one of the following.  Explain Kjeldahl's method.  What are dienes? Give preparation methods of 1, 3 – butadiene.	08

Seat	Sat	D
No.	Set	_

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

		F	March/Apri undamentals of Microbiol			
			nursday, 15-May-2025 // To 02:00 PM		Max. Marks:	40
Instr	uctio	3	<ol> <li>All questions are compulsor</li> <li>Draw neat diagram and give</li> <li>Figures to the right indicate</li> <li>Use of logarithmic table and</li> </ol>	e eq	marks.	
Q.1	Multi 1)	Stud clas a)	choice questions  dy of acid and gas production sification.  Morphological Cultural		approach to bacterial  Genetic	80
	2)	Cell a) c)	20	al co b) d)		
	3)	Anti a) c)	biotic penicillin was discovere Alexander Fleming Joseph Lister	b)		
	4)	a) c)	is placing organisms into g Identification None of these	b)	os based on their relationship. Nomenclature Classification	
	5)		terial ribosomes are of 80 S 70 S		es. 60 S 40 S	
	6)	The a) b) c) d)	main feature of prokaryotic o absence of nuclear material absence of locomotion absence of nuclear envelope absence of protein synthesis	<b>)</b>	ism is	
	7)	Hot a) c)	air oven works on the principl chemical moist heat		sterilization. gaseous dry heat	

	8)	is the direct cell counting method.				
		a) Microscopy	b)	Turbidostat		
		c) Chemostat	ď)	SPC		
Q.2	Ans	wer the following (any 4)			08	
	a)	Pasteurization				
	p)	Fungi				
	,	Disinfection				
		Slime layer				
	e)	Auxotroph				
Q.3	Writ	te Short Notes (any 2)			08	
	a)	Tyndallization				
	b)	Structure of Cell membrane				
	c)	Heterotrophs				
Q.4	Ans	wer the following (any 2)			08	
	a)	Discuss in brief control of microl	bes us	ing chemical agents.		
	b)	Briefly explain Diauxic growth.				
	c)	Explain the role of chemostat in	the co	ntinuous growth.		
Q.5	Δns	wer the following (any 1)			08	
<b>Q.</b> 0	a)	Explain in detail difference betw	een Pi	okarvotic and Fukarvotic cells.	00	
	b)	Enlist contributions of John Tyne		-		
	,	Fleming.	,	3 - 2 , 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		

Seat	Sat	В
No.	Set	

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

·		Ba	March/Apr sic Techniques in Microbi	il - 2		•
•			riday, 16-May-2025 M To 02:00 PM		Max. Marks	s: 40
Inst	ructio		<ol> <li>All questions are compulso</li> <li>Figures to the right indicate</li> <li>Draw neat labeled diagram</li> </ol>	full		
Q.1	Cho 1)		the correct alternative and r is used to provide steam u Autoclave Laminar air flow	inde b)		08
	2)		of the following is used as Beef extract Peptone	b)	olidifying agent for media. Yeast extract Agar	
	3)	a) b) c)	solving power of a microscope Wavelength of light used Refractive index Wavelength of light used and Numerical aperture of lens		function of merical aperture of lens system	
	4)	a) b)	dium used for urease test is _ Christensen's urea agar Kausar's agar medium Kausar's urease agar mediu Nutrient agar			
	5)	a) c)	is the nutritional character Autotroph Heterotroph	izatio b) d)	on of <i>Escherichia coli</i> . Phototroph Chemolithotroph	
	6)	a) c)	of the following inhibits DN Cathode rays Gamma rays	IA re b) d)	eplication. UV light x-rays	
	7)		ght microscopy of the forming technique. Water Heat	ollow b) d)	ring is used as fixatives prior to  Alcohol  Detergent	

	8)	of the following is used in electron microscope.	
		a) magnetic fields	
		b) light waves	
		c) Sunlight	
		d) electron beams and magnetic fields	
Q.2	Ans	swer any four of the following.	08
	a)	Function of cell wall	
	b)	SPC	
	c)	Define Stain	
	d)	Applications of TEM	
	e)	Enriched media	
Q.3	Writ	te short note on any two of the following.	08
	a)	Explain in brief Capsule staining.	
	b)	Describe in brief Catalase test.	
	c)	Explain in brief maintenance and preservation of pure cultures.	
Q.4	Ans	swer any two of the following.	08
	a)	Explain in detail Working, Principles & Application of- Bright Field	
	<b>b</b> \	Microscopy.	
	b)	Describe in detail Living media composition and use.	
	c)	Explain in detail mechanism and significance- IMViC test	
Q.5	_	swer any one of the following.	80
	a)	Describe in detail Gram Staining.	
	b)	Explain in detail natural and synthetic media.	

Seat No.				Set	Р
E	3.Sc	c. (Entrepreneurship) (Semeste March/Apr Cellbiology (Pap	il - 20	025	
•		ite: Saturday 17-05-2025 00 PM To 02:00 PM		Max. Mark	s: 40
Instru	uctio	2) Figures to the right indicate 3) Draw neat diagrams where 4) Use of logarithmic table and (At. Wts.: H=1, C=12, O=16)	full n ver ne d calc	ecessary. culators is allowed.	
Q.1	Sele	ect the correct alternative.			08
	1)	DNA is 'mainly' found in  a) Nucleus and cytoplasm c) Lysosome	b) d)	Nucleus only Cytoplasm	
	2)	In the plasma membrane, lipid mo a) Scattered c) Head parallel	lecule b) d)	es are arranged in alternate series	
	3)	Nucleoli were discovered by a) Robert Hook c) Robert Brown	 b) d)	Felice Fontana Leeuwenhoek	
	4)	Plasma membrane is made up of a) A protein, a lipid and a cellulo b) Bimolecular lipid layer surrou c) A protein layer between two d) A lipid layer between two proteins.	ınded lipid l	by protein layers ayers	
	5)	Steroids, a biologically active orga	nic c	ompound, are derived from	
	σ,	a) Cholesterol c) Carbohydrates	b) d)	Chemical Hormones	
	6)	The cancerous state of blood is a) Leukemia c) Proteinemia	b) d)	Chloremia Uremia	
	7)	The nucleus of cancerous cells be a) Unchanged c) Hypertrophied	come b) d)	es Abnormally large Degenerated	

	8)	Chromosomes found in the salivary gland of drosophila is  a) Polytene b) Lampbrush c) Supernumerary d) B-chromosomes	
Q.2	a) b) c) d) e)	Draw structure of Chloroplast. Enlist characteristics of Cancer. Explain Chemical components of biological membranes. Define intermediate filaments. Explain membrane as a dynamic entity. Enlist functions of nucleus	08
Q.3	a) b)	te short notes on any two of the following:  Define Carcinogenesis and a note agents promoting carcinogenesis.  Write a detail note on Structure and function on Nucleus.  Discuss in detail about regulation of receptor expression and its function.	80
Q.4	a)	wer any two of the following: Write a brief note on Fluid Mosaic Model. Define cytoskeleton and explain cell motility. Explain Structure and functions of Ribosomes	80
Q.5	a)	wer any one of the following:  Define Mitochondria and explain Structure, functions and its Genome.  Write a detail note on Golgi complex its Structure, biogenesis and functions including role in protein secretion.	80

Seat No.	•					Set	P
I	B.Sc		ship) (Semester March/April nimal and Plant	- 20		ation:	
,		e: Monday, 19-05 0 PM To 02:00 P			Max	. Marks	: 40
Instr	uctio	2) Figures to	ns are compulsory the right indicate f labelled diagrams	full m			
Q.1		ct the correct alt The location of th a) Cerebrum c) Medulla Obl	ne neuro centre ad	ctivity b) d)			80
	2)	"Heart of heart" is a) SA node c) Purkinji fiber		b) d)	AV node Bundle of HIS		
	3)	Casparian strips a) Epidermis c) Endodermis		b) d)	Pericycle Cortex		
	4)	The respiratory s a) Alveoli c) Pharynx	system, gaseous e	excha b) d)	ange takes place at Trachea Larynx		
	5)	Nitrogen is absor a) Nitrites c) Nitrates	rbed by the plants	in th b) d)			
	6)	Conversion of an a) Denitrification c) Assimilation	on	nd th b) d)	nen to nitrates is called _ Nitrification Ammonification		
	7)	a) Ethylene c) abscisic acid	_	y pre b) d)	esent in the gaseous state Ethane Argon	9.	

\_\_\_\_ stimulates the production of gastric juice in the stomach.
a) Digestin b) Enterokinase
c) Gastrin d) Rennin

<b>Q.2</b>	Ans	wer any four of the following:	80
	1)	Define Photphosphorylation	
	2)	Define Haematopoeisis	
	3)	Define transpiration	
	<b>4)</b>	Define hypo and hyper-secretions	
	5) C)	Define Plasma proteins.	
	6)	Define Circulation of blood.	
Q.3	• .	Write short notes on any two of the following:	08
	1)	Discuss about primary structure of shoot and root.  Explain Transport of O <sub>2</sub> and CO <sub>2</sub> in respiration.	
	3)	Write a detailed note on Calvin cycle.	
	0)	vville a detailed flote off Calvill Gyole.	
0.4	Anc	wor any two of the following:	08
<b>Q.4</b>		wer any two of the following:  Add a note on Mechanism of digestion and absorption.	UO
	2)	Explain nitrate reduction and ammonium assimilation in plants.	
		·	
	3)	Discuss in brief about concept of two photo systems.	
Q.5	Atte	mpt any one of the following.	08
, -		Define Hormone and write d detailed note on plant growth hormone.	
	2)	Explain in brief about Mechanism of working of heart.	
	<b>-</b> /	Explain in one about Montainen of Working of Heart.	

Seat No.		S	Set P
В	.Sc. (En	ntrepreneurship) (Semester - II) (New) (CBCS) : Examina March/April - 2025 English (Comp.) Communication Skill (EN1201)	tion
•		Thursday, 22-May-2025 Max. M PM To 02:00 PM	larks: 40
Instru	uctions:	<ul><li>: 1) All questions are compulsory.</li><li>2) Figures to the right indicate full marks.</li></ul>	
Q.1	Choose 1)	the correct alternative from given options Who regards value of education unquestionable a) Practical man b) Educated man c) Eminent man d) Plutocrats	08
	2)	What do teachers invariably believe in a) Common knowledge b) Knowledge from books c) Knowledge of animals d) Common sense	
	3)	What sort of prison did the kings live in? a) Dungeon b) Isolated tower c) Gorgeous unreality d) House arrest	
	4)	Who lynched the lakes a) The poet b) factories c) The vehicles d) The humans	
	5)	What is the profession of the ideal man described in the poem 'Ode of Solitude'  a) Pastor b) farmer c) Cobbler d) Teacher	on
	6)	What type of place the poet is going to in the poem "Remember"?  a) Loud place b) market place c) Silent place d) Dull place	
	7)	Write antonyms of the word - Complex a) Useful b) Small c) Simple d) Ugly	
	8)	Identify tense of the following sentence.  'He had written a letter to the Principal of the college'	

a) simple sentencec) Past tense

Present continuous sentence

Past perfect tense

b) d)

Q.2		the answer in short (Any Four) What is considered the business of education in all countries according to Russel?	12
	2) 3)	What kind of people can achieve the true sense of freedom? What is the end of the poem "Our Earth Will Not Die? What does it indicate?	
	4) 5) 6)	What picture of a farmer does Pope present in the poem? Who is happy man according to Alexander Pope? What is the theme of the poem 'Remember?	
Q.3		ver the following questions (Any One)  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	10
	2)	Write a letter applying for the post of Computer Teacher.	
Q.4	Desc	ribe non-verbal ways in which peopie communicate (Any Five)	10

Seat	Sat	D
No.	Set	

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

	Fun	ıdan	March/Aprii Entrepreneurship Sci nental of Marketing & Mana	ence	e (Paper –III)
•			day, 23-May-2025 To 02:00 PM		Max. Marks: 40
Instru	uctior	2	All questions are compulsory.  Figures to the right indicate full  Draw neat labelled diagrams  Use of logarithmic table and o	ıll ma wher	ever necessary.
Q.1		Mar a)	choice questions keting is a process which aims Satisfaction of customer needs Production	at b) d)	Selling products Increase Profit
	2)	Sell a)	ing is Different from marketing Same as marketing	,	function from marketing More than marketing
	3)	a)	ket Segmentation is useful for Preferential marketing Identifying prospects	b) d)	
	4)	a)	narketing stands for Email Marketing Entry Marketing	b) d)	Electronic Marketing Eco-friendly Marketing
	5)		nagement accounting deals with Quantitative information Both a and b		Qualitative information None of the above
	6)	Inte a) c)	rnationally accepted current rat 1:1 2:1	tio is b) d)	1:2 2:3
	7)		rent ratio is a Short-term solvency ratio. Profitability ratio.	b) d)	Long-term solvency ratio. Turnover ratio.
	8)	Ana a) c)	llysis of any financial Statemen Balance sheet Trading account	t com b) d)	-

Q.2	a) b) c) d)	wer of the following (Any Four)  Define Selling.  Define market segmentation.  Define e-marketing.  What is working capital?  What is management accounting?	08
Q.3	Writ i) ii) iii)	e short notes of the following (Any Two)  Explain nature of marketing.  Discuss benefits of e-marketing.  Write classification of working capital.	08
Q.4	i) ii)	wer the following (Any Two) Discuss features of e-marketing. Explain determinants of working capital. A company had following Current Assets and Current Liabilities: Debtors Rs. 1,20,000, Creditors Rs. 60,000, Bills Payable Rs. 40,000, Stock Rs. 60,000, Loose Tools Rs. 20,000, Bank Overdraft Rs. 20,000. Calculate current ratio.	08
Q.5	Ans	wer the following (Any One)	08
	a)	Calculate the Gross Profit Ratio: Sales Rs. 2,70,000, Net purchase Rs. 1,50,000, Sales Return Rs. 20.000, Closing stock Rs. 25,000 Opening stock Rs. 45,000	
	b)	What is management accounting? Explain scope and limitation of management accounting.	

Seat	Sat	D
No.	Set	

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

		.01 (		March/April Entrepreneurship Sci ost accounting and Project	- 202 ence	25 e (Paper–IV)
				ırday, 24-May-2025 Γο 02:00 PM		Max. Marks: 40
Instr	uctio	ons:	2) 3)	All questions are compulsory Figures to the right indicate to Draw neat labelled diagrams Use of log table and calculat	full m whe	rever necessary.
Q.1	1)		Co a)	le Choice Questions st Accounting started as a b Financial Accounting Corporate Accounting	b)	Management Accounting
		2)	 a)	is the objective of Cost A Controlling Cost Determining Selling Price	Accoi b)	unting Ascertaining costing profit
		3)		ntract Costing is a variant of Job Unit	b)	<u> </u>
		4)	un	nual requirement is 7800 un its ,Unit price '5, order cost' ´ d lead time is 3 week. The E	I0 pe	r order carry cost'1 per unit
			a) c)	396 Units 250 Units	b) d)	300 Units 150 Units
		5)	kn	e process of each manager own as Project Management Project Management Lifecycle	follov b) d)	
		6)	Th a) c)	e Basic nature of a project is Permanent A OR B	a/ar b) d)	n one Temporary Both a & b
		7)		veloping a Technology is an Process Scope	exar b) d)	nple of Project All of these

		8) Project Performance consists	of		
		a) Time	b)	Cost	
		c) Quality	ď)	All of these	
Q.2	i) ii) iii) iv)	wer any four of the following Define Accounting. Define Costing. Define Project Management Define Planning. What do you mean by Report?			08
Q.3	i)	Write short notes on any Two or Techniques of Costing Characteristics of Project Concept of Management	f the	following.	08
Q.4	Atte	empt any Two of the following. Write down Element of Costs?			08
	-,	Write down Problem of Cost Shee	t		
	iii)	Write down tools and techniques		oject Management?	
Q.5	Ans	swer any one of the following			08
	i)	Write down Advantage and Disad	vanta	ages of Costing?	
	ii)	Write down role and responsibilities	es of	Project Manager?	

Seat No.			Se	et P							
В	B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination:  March/April - 2025  Industrial Chemistry (Paper - III)  Fundamentals of Physical Chemistry (EN1204)										
-		e: Monday, 26-May-2025 00 PM To 02:00 PM	Max. Mar	ks: 40							
Instr	uctio	<ul><li>3) Figures to the right inc</li><li>4) Use of log table and s</li></ul>	nd give equations wherever necessary.								
Q.1	Cho 1)	ose the correct alternatives Photochemical union of $H_2$ a a) first c) third	s from the options.  and $\operatorname{Cl}_2$ is an example of order react  b) second  d) zero	<b>08</b> ction.							
	2)	The rate law for the second a) rate = $k[A]^0$	order reaction is b) rate = $k[A]^1$								
		c) rate = $k[A]^2$	d) rate = $k[A]^3$								
	3)	P <sub>c</sub> , V <sub>c</sub> and T <sub>c</sub> are known as _ a) gas constants c) critical constants	b) van der Waals constants d) Velocity constants								
	4)	The SI unit of viscosity is a) Poise c) Dyne	b) Newton d) Pascal								
	5)	The number of molecules w chemical reaction is called a a) molecularity c) order	hose concentration changes during the as of the reaction, b) velocity d) rate								
	6)	The reaction between K <sub>2</sub> S <sub>2</sub> C reaction. a) first c) third	b) second d) zero								
	7)	Gas which obeys the gas larcalled as  a) ideal gas c) real gas	ws at all temperatures and pressures is b) non ideal gas d) all of these								

	8)	Cooling of a gas on expansion is known as effect.  a) warming b) Joule-Thomson  c) both a and b d) none of these							
Q.2	a) b) c)	wer any four of the following Which are the requirements for the liquefaction of gases? Define first order reaction. Give the SI unit of rate constant for the first order reaction. Which are the causes of the deviations of the real gases from ideal behavior? What is Poiseuille's equation? Explain the terms involved in it. Define pseudo-unimolecular reaction.	08						
Q.3	a) b)	ite short notes on any two of the following  Macleod equation for parachor  Factors affecting the rate of chemical reaction  van der Waals equation							
Q.4	Writa) b) c)	calculate the critical constants $P_c$ and of $V_c$ of a given gas if van der Waals constants 'a' and 'b' are $5.4 \times 10^5~\text{NM}^2\text{lit}^2\text{mol}^{-2}$ and $0.04596~\text{lit mol}^{-1}$ respectively. Show that for the first order reaction, time taken to complete half of a reaction is independent of initial concentration of the reactant. Define energy of activation. How it is determined?	08						
Q.5	Ans a) b)	wer any one of the following.  Derive an expression for rate constant of a second order reaction with equal initial concentration of reactants.  Define surface tension. Discuss drop-weight method for the determination of surface tension.	30						

Seat No.	Set P	

# B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April - 2025 Industrial Chemistry (Paper - IV) Fundamentals of Analytical Chemistry (EN1205)

			Fu	Industrial Chemist Indamentals of Analytica		-
				sday, 27-May-2025 Го 02:00 РМ		Max. Marks: 40
Insti	uctio	ons:	2) 3) 4)	All questions are compulsory Figures to the right indicate Draw neat labelled diagrams Use of log table and calculate. Wts. H=1, C=12, O=16, N	full m s whe tors i	erever necessary. s allowed.
Q.1	A)		Pe <sup>a</sup>	the correct alternative. troleum mainly contains Aromatic hydrocarbon Aliphatic hydrocarbon	b)	
		2)	is r a)	e polymer which on starchin emoved it regain its original Thermoplastic Elastomers	posi b)	dergo elongation and when force tion are known as Thermosetting None of these
		3)	kno a)	e process of removing extra own as Purification Disinfection	com b) d)	
		4)		tane number is zero for n-heptane N-hexane	 b) d)	iso-octane Iso-heptane
		5)	Ch a) c)	loroprene is a monomer of _ Natural rubber Buna-N	b) d)	 Buna-s Synthetic rubber
		6)	Am a) c)	nong the following which is s Strach Polythene	yntho b) d)	etic polymer? Silk Wool
		7)	as	flash point	ch the b) d)	e oil gives enough vapour is known cloud point fire point

		8)	ppt a)		is added		b) d)	blue Violet	coloured
Q.2	Ans: 1) 2) 3) 4) 5) 6)	De Wr Dis Wr	fine fine ite a sting nat is	calorific velastome any four quish between two series.	y soft wate	heating value mple. ideal drug noplastic a er and har	g. and d w	thermosetting polymer.	08
Q.3	Writ 1) 2) 3)	Vu Ro	lcan le o	nization	n any Two			•	08
Q.4	Ans 1) 2) 3)	Wh Exp Wh	nat t plair nat is	he types on essentia	al nutrients	Explain the of plants	witl	rm fresh water. In their classification. Stituent obtained from r	<b>08</b> efining
Q.5	Atte 1) 2)	Wh	nat a amp	are polymo ble.	the followers? Expla	ain variou	•	pes of polymers with su	<b>08</b> itable

Seat	Sat	D
No.	Set	

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

		F	March/. Industrial M Fundamentals of Indus		ology - III	
-			/ednesday, 28-May-2025 M To 02:00 PM		Max. Marks: 4	0
Insti	ructio	2	1) All questions are compo 2) Draw neat labeled diag 3) Figures to the right indi	rams wh		
Q.1	Cho 1)	Cro pro		xample o	of primary screening of antibiotic organic amine	8
	2)	Vor a) c)		is preve b) d)	impeller	
	3)		ey is the byproduct of paper and pulp sugar	b)	stry. antibiotic milk and dairy	
	4)	a)	emostat and Turbidostatar batch surface	b)	ed in fermentation process. continuous Submerged	
	5)		culum size should be < 0.5 % 25 %	 b) d)	0.5 to 5 % 50%	
	6)	rDN a) c)	IA technology is used for media formulation strain improvement	b) d)	fermentation process primary screening	
	7)	Enc a) c)	d point determination assa Diffusion assay Enzymatic assay	y is exar b) d)		
	8)	Sma a) c)	all 1 to 50 litre fermenters Industrial fermenters Laboratory fermenters	b)	Pilot fermenters	

Q.2	a) b) c) d)	wer the following. (Any Four) What is fermentation? What is antifoam agent? What is sterilization? What is microbial strain? What is protoplast? What is sparger?	08
Q.3	Write a) b) c)	te short notes on the following. (Any Two) Fermentation media ingredients Batch fermentation Microbial assay	08
Q.4	Ans a) b) c)	wer the following. (Any Two) Explain in brief about Inoculum development. Describe in brief secondary screening. Write in brief on scale up of fermentation process.	08
Q.5	Ans a) b)	wer the following. (Any One)  Explain in detail ideal bioreactor design, their parts and functions.  Describe in detail Strain Improvement.	08

Seat No.	Set P
No.	Jet 1

# B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination: March/April - 2025 Industrial Microbiology–IV Basics Techniques in Industrial Microbiology (EN1207)

		Bas	Industrial Micro sics Techniques in Industr		<del></del> -	
			nursday, 29-May-2025 M To 02:00 PM		Max. Marks: 4	40
Insti	uctio	2	<ol> <li>All questions are compulsor</li> <li>Draw neat labeled diagrams</li> <li>Figures to the right indicate</li> </ol>	s wh		
Q.1	Choo 1)	Baff	the correct alternatives from le is mainly use to avoid Foam Vortex	fo b)	<del>-</del>	80
	2)	a) c)	Lactobacillus	b)	ried out Alcoholic fermentation. Bacillus E.coli	
	3)	Indu a) c)	ustrial microbiology mainly dep Vaccination Purification		ds on the phenomenon  Fermentation  Pasteurization	
	4)	a) c)	of the following is not a pro Oxygen Beer	b)		
	5)		enyl acetic acid is used as pred Vitamin B12 Lysine		or in production. Penicillin G Amylase	
	6)	AIS a) c)	I 316 grade steel contains 10 02	b) d)	% chromium. 11 18	
	7)	Cryc a) b) c) d)	opreservation is  preservation at low temperat  preservation at high tempera  preservation with dehydration  preservation in mineral oil	ture		

	8)		•	e fermenter is ł		rried out by Baffles Antifoam agent	
Q.2	a) b) c)	Prec Enlis Past Auxo	any four of the for cursors at Primary and Se ceurization otroph at the antifoam ag	condary Meta			08
Q.3	Write a) b) c)	Write Scop	ort notes on any e in detail second be of Industrial Mi e in detail Screen	ary screening crobiology.	tec		08
Q.4	Writa) b) c)	Writ Expl	lain in detail desiç	oreservation ogn of fermente	r.	dustrially important microor	<b>08</b> ganisms.
Q.5	Ans a) b)	Expl	any one of the for lain in detail steril se in detail carbon	ization of ferm			08

Seat No.		Set	Р
В	.Sc. (Entrepreneu	rship) (Semester - II) (New) (CBCS) Examination: March/April - 2025	
	اء ما	underial Distantial and (Dance III)	

			Industrial Biotechn Basics of Biomole				
-			iday, 30-May-2025 И То 02:00 РМ			Max. Marks: 4	Ю
Instr	uctio	4	<ol> <li>All questions are compulsor</li> <li>Draw neat diagrams and give</li> <li>Figures to the right indicate</li> <li>Use of logarithmic table and (At. Wts.: H=1, C=12, O=16)</li> </ol>	e ed full cal	marks. culator is allowed.		
Q.1	Choo 1)	a) c)	the correct alternatives and is sulphar containing amino Methionine Lysine	o aci		entences. (	8
	2)	a) c)	is also known as invert sug Sucrose Dextrose	jar. b) d)	Fructose Glucose		
	3)	a) c)	form of lipids are also refer Triacylglycerol Phospholipids	red b) d)			
	4)	a) b)	elix has  3.4 amino acid residues/turn  3.6 amino acid residues/turn  3.8 amino acid residues/turn  3.0 amino acid residues/turn				
	5)	The a) c)	sugar molecule in a nucleotic Pentose Tetrose		Hexose Triose		
	6)	Fat a) c)	soluble Vitamins are Vitamin A Vitamin B6	b)	Vitamin B Vitamin C		
	7)	Car a) c)	bohydrates are also known as Hydrates of carbon Glycolipids	b) d)	Carbonates Polysaccharides		

	<ul><li>a) Cytosine</li><li>c) Uracil</li></ul>	b) Thymine	
	c) Uracil	í\	
		d) Adenine	
Ans a) b) c) d) e)	Draw Structure of DNA.		08
Wri a) b) c)	Write a note on Induced fit hypo Explain in detail about propertie	othesis of enzyme action. s of Amino acids.	08
Ans a) b) c)	Explain in detail about Nucleos Write a note on properties of Fa	atty acids.	08
Ans a) b)	Define Carbohydrates and add Properties of Monosaccharides		08
	b) c) d) e) f) Wri a) b) c) Ans a) c) Ans	<ul> <li>b) Define Oligosaccharides</li> <li>c) Define Apoenzyme.</li> <li>d) Define Purines and Pyrimidines</li> <li>e) Draw Structure of DNA.</li> <li>f) Enlist Sulphar containing amino</li> <li>Write short notes on the following</li> <li>a) Write a note on Induced fit hypo</li> <li>b) Explain in detail about propertie</li> <li>c) Discuss in detail about water so</li> <li>Answer the following. (Any Two)</li> <li>a) Explain in detail about Nucleosi</li> <li>b) Write a note on properties of Fac</li> <li>c) What is coenzyme? And add a</li> <li>Answer the following. (Any One)</li> <li>a) Define Carbohydrates and add Properties of Monosaccharides</li> </ul>	<ul> <li>b) Define Oligosaccharides</li> <li>c) Define Apoenzyme.</li> <li>d) Define Purines and Pyrimidines</li> <li>e) Draw Structure of DNA.</li> <li>f) Enlist Sulphar containing amino acids.</li> <li>Write short notes on the following. (Any Two)</li> <li>a) Write a note on Induced fit hypothesis of enzyme action.</li> <li>b) Explain in detail about properties of Amino acids.</li> <li>c) Discuss in detail about water soluble Vitamins.</li> <li>Answer the following. (Any Two)</li> <li>a) Explain in detail about Nucleosides &amp; Nucleotides.</li> <li>b) Write a note on properties of Fatty acids.</li> <li>c) What is coenzyme? And add a note on its prosthetic groups.</li> <li>Answer the following. (Any One)</li> <li>a) Define Carbohydrates and add a note on its Structure, Function and Properties of Monosaccharides.</li> </ul>

Seat	Sat [	D
No.	Set	

# B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination March/April - 2025

			March/Apri Industrial Biotechno Basics of Metabo	olog	y (Paper - IV)
			onday, 02-June-2025 // To 02:00 PM		Max. Marks: 40
Instr	uctio		<ol> <li>All questions are compulsor</li> <li>Figures to the right indicate</li> </ol>	-	marks.
Q.1	Mult 1)	The	choice questions. primary function of glycogen Lysine Glycogenin		<b>08</b> hesis is carried out by Arginine Glutamine
	2)	a) c)	Pyruvate reductase	b)	conversion of pyruvate to lactate. Lactate reductase Pyruvate dehydrogenase
	3)	a) c)	of the energy source of the Fat lipid	bra b) d)	_
	4)	a) c)	macromolecule can most s Protein Carbohydrate	struc b) d)	turally diverse among living world. Lipid Vitamins
	5)	a) c)	is considered as both keto Valine Tryptophan	_	c and glucogenic Lysine Guanine
	6)		ch of this hereditary disease of abolism. Homocystinuria Albinism	b) d)	ed due to an error in amino acid Phenylketonuria None of these
	7)	The a) c)	TCA cycle occurs in which re Cytosol Ribosome	gior b) d)	of prokaryotic cell. Mitochondria Golgi apparatus
	8)	In fe a) c)	ermentation which of the follow Starch NAD+	ving b) d)	is regenerated Oxygen NADH

<b>Q.2</b>	Ans	wer the following. (Any Four)	08
	a)	Define Fermentation	
	b)	Define Nucleotide	
	c)	Define Metabolism.	
	d)	Define Glycolysis	
	e)	Define fats	
	f)	Define Nucleic acid	
Q.3	Writ	te short notes on the following. (Any Two)	08
	a)	Explain the process Oxidation of fatty acids.	
	b)	Explain Lactic acid fermentation	
	c)	Define phenylketonuria and its symptoms.	
Q.4	Ans	wer the following. (Any Two)	08
	a)	Schematic representation TCA cycle.	
	b)	Write note on Glycogen synthesis.	
	c)	Describe Beta oxidation saturated fatty acids.	
Q.5	Ans	swer the following. (Any One)	08
	a)	Define Carbohydrate metabolism with process and its stages.	
	b)	Explain in Detail Salvage pathway.	

Seat No.					Set	P	
	B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination March/April - 2025 Entrepreneurship (Paper - V) Principles of Business Management & Business Organization (EN1301)						
		e: Thursday, 05 0 AM To 11:00			Max. Marks	: 40	
Instr	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.						
Q.1	Cho		t alternatives from		options.	08	
	1)	Who is the Fat a) F.W. Taylo c) Robinson	her of Managemen or		Henri Fayol Piguo		
	2)	Principles of M a) Absolute c) Universal	anagement are no	t:- b) d)	Behavioral Flexible		
	3)	a) Small Sca	ship is most suitab le Concern cale Concern	b)	r Large scale Concern None of these		
	4)	What is the min Company a) 10 c) 5		nem b) d)	ber required to form a public limit 2 7	ed	
	5)	Concentration a) Decentrali c) Accountat			l is called Delegation Centralization		
	6)	means (a) Unity of C (c) Centralization	ommand		get order from one superior only Unity of Direction Order		
	7)	-	anagement states		way to perform a task. Which  Motion study Method Study		

Q.5 Answer the following question: (Any One )

b)

Explain the functions and qualities of Leader?

Explain the Decision making process & Types of Decision?

80

Seat	Sat
No.	Set P

# B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April - 2025 Entrepreneurship (Paper - VI) Advanced Accountancy & Auditing (EN1302)

			Entrepreneurshi Advanced Accountancy	• •	•	
			Friday, 06-June-2025 NM To 11:00 AM			Max. Marks:40
Instr	uctio	ns:	<ol> <li>All questions are compulsor</li> <li>Figures to the right indicate</li> <li>Draw neat diagrams and give</li> <li>Use of logarithmic table and</li> </ol>	full /e ed	quations wherever ne	ecessary.
Q.1	Cho 1)	De a)	the correct alternatives from preciation is provided on fixed assets current assets	the - b) d)	outward charges intangible assets	08
	2)	a)	cash book, the favorable baland Debit Both (a) & (b)	ce in b) d)	dicates: Credit None of these	
	3)	a)	er-state trade is presently subje CGST IGST	ect to b) d)	SGST GGST	
	4)	a)	dit word is derived from Latin te Autire Autiti	erm <sub>_</sub> b) d)	Audire Audira	
	5)		diting begins where end Accounting Selling	s. b) d)	Marketing Purchase	
	6)	a)	ors which affect one account contents of omission errors of posting	b)	e errors of principle error of commission	
	7)	Into a) c)	ernal auditor is appointed by The management The creditors	b) d)	The government The investors	
	8)	Inc a) c)	crease in working capital is Application of funds No effects on funds	b) d)	Sources of fund None of the above	

Q.2	Answer the following questions: (Any Four)  a) Define Working Capital. b) What is Bank reconciliation? c) Define Funds Flow. d) Define Auditor. e) What is insurance claim? f) What is Voucher?							
Q.3	<ul> <li>Write short notes: (Any Two)</li> <li>a) Explain any four functions in Tally software.</li> <li>b) Explain benefits of cash flow statement.</li> <li>c) Prepare Bank reconciliation Statement as on 31<sup>st</sup> March, 2022 from the following details- <ol> <li>i) Bank column of Cash book shows debit balance of Rs. 15,000</li> <li>ii) Cheque of Rs. 10,000 issued but not presented for payment.</li> <li>iii) Customer directly deposited of Rs. 7,000 in to bank.</li> <li>iv) Bank debited bank charges of Rs. 200</li> <li>v) Cheque of Rs. 3,700 deposited in to the bank but not credited by the bank.</li> <li>vi) Bank paid insurance premium of Rs. 2,500 but not recorded in cash book.</li> </ol> </li></ul>							
Q.4	Ans a) b) c)	b) Explain Internal Audit and External Audit.						
Q.5	·							
		Total	3,17,000	3,60,000				

**Liabilities:**Bills payable

Creditors

Accumulated Depreciation on Building

3,000 40,000

25,500

2,000

33,000

15,000

Outstanding expenses	3,500	4,500
Debentures	40,000	35,000
Equity share capital	2,00,000	2,00,000
Profit and loss account	23,500	52,000
Total	3,17,000	3,60,000

Prepare statement showing changes in working capital.

Seat	Sat	D
No.	Set	

# B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April - 2025

	Ana	lytic	Industrial Chem al & Industrial Aspects of		-	(EN1303)
-			onday, 09-June-2025 И То 11:00 AM			Max. Marks: 40
Inst	ructio		1) All questions are compulso 2) Figures to the right indicate	-	marks.	
,				as proposed by Bronsted-Lowry		
	2)	Self a) c)	f-stifling the corrosion. increases promotes	b) d)	•	
	3)	Cor a) c)	rosion is nothing but anodic _ oxidation reduction	b)	hydrolysis none of these	
	4)	a) c)	is called as king of chemic H <sub>3</sub> PO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub>	als. b) d)	HBr HNO <sub>3</sub>	
	5)	The a) c)	reagent of known concentrat titrand titrant	ion i b) d)	titre	
	6)	A bi a) c)	iological catalyst is an amino acid carbohydrate	b) d)	catalase protein	
	7)	Nuc a) c)	cleation is the step of particles first final	recip b) d)	oitation. second third	
	8)	_	ravimetric estimation of iron, t ss of Fe(OH) <sub>3</sub> Fe <sub>2</sub> O <sub>3</sub>	he a b) d)	mount of iron is estir F <sub>e</sub> SO <sub>4</sub> All of these	nated from the

<b>Q.2</b>	Answer the following question. (Any Four)					
	a)	Define equivalence point and titrant.				
	b)	Define nucleation and digestion.				
	c)	Enlist two factors that affects corrosion.				
	d)	Write four advantages of contact process.				
	e)	Draw the structure of [M <sup>2+</sup> -EDTA] complex.				
	f)	What do you mean by catalyst?				
Q.3	Wri	te short notes on the following. (Any Two)	08			
	a)	Nucleation and its types.				
	b)	8-Hydroxy quinolone.				
	c)	Define homogenous and heterogeneous catalysis with examples.				
Q.4	Ans	swer the following. (Any Two)	08			
	a)	Write any four applications of passivity.				
	b)	Describe industrial applications of catalysis.				
	c)	Explain electrochemical theory of corrosion.				
Q.5	Ans	swer the following question. (Any One)	08			
	a)	Explain the formation of sulphuric acid by Contact process.				
	b)	Explain neutralization curve and choice of indicator for titration of				
		strong acid and weak base.				

Seat	Sat	D
No.	Set	P

# B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination: March/April - 2025 Industrial Chemistry Paper–VI Analytical & Industrial Aspects of Organic Chemistry(EN1304)

	Ar	naly	tica	al & Industrial Aspect	s of Org	ganic Chemistry(	EN1304)
-				sday, 10-June-2025 Го 11:00 АМ			Max. Marks: 40
Inst	ructio	ons	2)	All questions are compul Figures to the right indic Draw neat labelled diagr Use of logarithmic table	ate full market	erever necessary.	
Q.1	A)		So a)	ole choice questions ap is molecule. Amphipathic hydrophilic	,	Amphoteric Basic hydrophilic	08
		2)	a)	mpound imbibation is us Extraction Crystallisation	b)	of juice. Clarification Defecation	
		3)	a)	e process of removing w Singing Dyeing		ow during sizing is Scouring None	
		4)	a)	e object of sizing is due smoothness Strength	b)	se of Yarn elasticity All	
		5)	a) b) c)	tipyretic drug is used to Control sleep Increase body tempera Decrease body tempera Induce sleep	ture		
		6)		endensation of indole with elds monocrotophos Indole acetic acid	n chloroa b) d)	acetonitrile followed Endosulphan ethophan	l by hydrolysis
		7)	a) c)	is not nature fiber Jute Wool	b) d)	Nylon Silk	

		a) quality b) quantity c) Pest control d) all	
Q.2	a) b) c) d)	Draw neat labelled diagram of clarifier.  Classify fiber	08
Q.3	a)	rite short notes on. (Any Two)  By products of sugar industry  Dyeing process to textile  Qualities of ideal drug	08
Q.4	Ans a) b) c)	Objects of sizing	<b>08</b> wer
Q.5	Ans 1) 2)	explain hot process of manufacture of soap  Explain extraction of juice & by products of alcohol industry	08

Seat No.					Set	P		
B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination:  March/April - 2025  Microbial Biotechnology (Paper - V)  Genetics (EN1305)								
-		e: Wednesday, 00 AM To 11:00	11-June-2025 `		Max. Marks:	40		
Instructions: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 3) Draw neat labelled diagrams wherever necessary.								
Q.1		Pea plants were a) they were d		perim b)	e sentences again. ents because they were available easily they had contrasting characters	80		
	2)	Lack of independ a) recombinat c) crossing ov		_	nes is due to linkage repulsion			
	3)	V-shaped chromequal arms are a) Telocentric c) Metacentric	<del>.</del>		n the middle giving rise to two  Acrocentric  Acentric			
	4)	In chromosomal known as a) deletion c) translocation		f chro b) d)	inversion duplication			
	5)	Lambda (λ) phaga) abortive c) specialized	ge shows type	b)	ansduction. generalized synthetic			
	6)	Linkage prevent  a) homozygou  c) hybrid form	us condition	b) d)	segregation of alleles heterozygous condition			
	7)	Crossing-over ta a) Diakinesis c) Anaphase	•	 b) d)				
	8)	The average of a a) mean c) range	all observations in a s	set of b) d)	data is known as median mode			

Q.2	Ans a) b) c) d) e) f)	wer in short answers (Any Four) What is dihybrid crossing? What is mutation? What is allele? What is crossing over? What is transposon? What is probability?	08
Q.3	Wri a) b) c)	te Short Notes (Any Two) Types of chromosomes Law of Independent assortment Central tendency	08
Q.4	Ans a) b) c)	Explain in brief the chromosomal aberration.  Describe in brief the conjugation.  Write in brief the linkages.	08
Q.5	Ans a) b)	wer the following questions. (Any One)  Describe in detail Transformation.  Explain in detail mutation.	08

Seat No.							Set	Р
В	.Sc.	(Ent	Mic	March/	April - 20 chnology	/ (Paper - VI)	xamination	:
			nursday, 12 // To 11:00	-June-2025 AM			Max. Marks	: 40
Instr	uctio	2	2) Figures t 3) Draw ne	ions are complo o the right indi at labelled diag g table and ca	cate full r grams wh	erever necessary.		
Q.1	give	a)	low. is used	to produce bio treatment	gas from b)	biomass. Aerobic treatment Pyrolysis		10
	2)	a)	Stretomy	s produced by es noursei ces fradiae	b)	Streptomyces not Streptomyces gris		
	3)		Multicellul	ost common s ar yeast r algae	b)	SCP. Single-celled yea: Unicellular bacter		
	4)	,	ion prod Manganes Copper		ffect in the b) d)	e brewing process. Calcium Sulphate		
	5)	b)	Bacillus a	_	-			
	6)	The	pH of mola	asses solution	in the ma	nufacture of ethand	ol should be	
		,	1-2 7-9		b)	2-3 4-5		

	7)	is a substrate for biogas production. a) Municipal and residential waste c) E-waste c) Metallic waste d) Gaseous effluents	
	8)	is an aerobic nitrogen-fixing bacterium.  a) Azotobacter b) Clostridium c) Rhodospirillum d) Rhodopseudomonas	
Q.2	a) b) c) d)	wer following question. (Any Four) Types of penicillin. Where is PHB used? Write the chemical composition of media for citric acid production. Types of antibiotics. Define the term Mast. Define the term fermentation media.	08
Q.3	a) b)	wer following question. (Any Two) Write about biofertilizers. Write about procedure of Alcohol production. Write short notes on PHB.	08
Q.4	a) b)	wer following question. (Any Two) Write in detail biogas production. Write about SCP production. Industrial production of Citric acid.	08
Q.5	a)	wer following question. (Any One)  Explain in detail production of penicillin.  Explain in detail wine production from grape.	08

Seat No.					Set	Р
В	.Sc. (	Enti	March/April repreneurship	- 202 Pap		<b>1</b> :
•		: Wednesday, 30-Apri AM To 02:00 AM	il-2025		Max. Mark	s: 40
Instr	uctio	ns: 1) All questions 2) Figures to the 3) Draw neat lab	e right indicate fu	ıll ma		
Q.1	Choo 1) _		sed to value sha Method	ares b	e the sentences again.  based on their actual worth.  Intrinsic Value Method  None of the above	08
	2)	a) Debenture b) Prospectus c) Memorandum d) Articles of Asso	of Association	equire	ed for issuing shares.	

3) Under \_\_\_\_\_ section of the Companies Act, 1956 are final accounts prepared. a) Schedule Ic) Schedule VI b) Schedule III d) Schedule IV A liquidator is responsible for \_\_\_\_\_. a) Issuing shares b) Paying off debts during company liquidation c) Managing company profits d) Issuing debentures 5) Corporate Governance involves \_\_\_\_\_. a) Corporate culture b) Social responsibility c) Creating an ethical organization d) All of the above 6) \_\_\_ best describes globalization. a) Increasing global interdependence of national economies

Local business operations in one country

c) Declining use of technology

Restricting foreign investments

b)

d)

	7)	Ethics in marketing involves:  a) Manipulation of prices b) Transparent pricing c) Unethical advertising d) Exploitation of customer trust	
	8)	In HRM, is considered ethical behavior.  a) Discrimination based on gender b) Fair recruitment practices c) Favoritism d) Unfair performance appraisals	
Q.2	Ans a) b) c) d) e) f)	Define the term "Forfeiture of Shares". What is meant by the term "Liquidation"? Define Corporate Governance. Define Globalization in a business context. Explain the relationship between ethics and corporate governance. Explain corporate social responsibility (CSR) in modern business practices.	08
Q.3	Ans a) b)	<ul> <li>swer the following questions. (Any Two)</li> <li>Define business Ethics. How does it differ from personal ethics?</li> <li>ABC Ltd. issued 1,000 shares at a face value of ₹ 10 per share, payable as follows:</li> <li>On Application: ₹3 per share</li> <li>On Allotment: ₹4 per share</li> <li>On First and Final Call: ₹3 per share</li> </ul>	08
	<b>c</b> )	<ul> <li>X, a shareholder holding 100 shares, fails to pay the first and final call. The company forfeits these shares and later reissues them to Y at ₹9 per share, fully paid.</li> <li>Required:</li> <li>1) Calculate the amount forfeited.</li> <li>2) Journalize the entries for the forfeiture and reissue of shares. Explain the Factors Facilitating Globalization.</li> </ul>	
Q.4	Ans a) b)	swer the following questions. (Any Two)  Explain the term "Corporate Governance" and its importance in business.  ABC Ltd. went into liquidation on 1st August 2024. The following information is provided:	08
		<ul> <li>Realized assets:</li> <li>Land and Buildings: ₹ 1,20,000</li> <li>Plant and Machinery: ₹ 80,000</li> <li>Stock: ₹ 40,000</li> <li>Debtors: ₹ 25,000 (but ₹5,000 is irrecoverable)</li> </ul>	

80

Payments made by the liquidator:

Secured creditors: ₹ 1,00,000
 Preferential creditors: ₹ 15,000
 Liquidation expenses: ₹ 10,000

#### **Adjustment:**

- 1. The company had ₹ 60,000 in unsecured creditors.
- 2. There was also an unrecorded liability for unpaid wages amounting to ₹ 10,000.

Prepare the **Liquidator's Final Statement of Account** after considering the adjustments.

c) Explain role of Multinational Company in the context of Globalizations.

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

Discuss the role of ethics in Human Resource Management (HRM).

**b)** XYZ Ltd.

#### Trial Balance as of 31st March, 2024:

Particulars	Debit (₹)	Credit (₹)
Sales		10,00,000
Purchases	5,00,000	
Opening Stock	1,00,000	
Salaries	80,000	
Rent Expenses	40,000	
Other Expenses	60,000	
Land & Building	10,00,000	
Plant & Machinery	5,00,000	
Capital		10,00,000
Creditors		2,00,000
Outstanding Salaries		20,000
Closing Stock		2,00,000
Reserves & Surplus		1,00,000
Depreciation Reserve		50,000

#### **Adjustments:**

- 1. Closing Stock as of 31<sup>st</sup> March 2024 is ₹ 2, 00,000.
- Depreciation: Depreciate Land & Building at 5% & Plant & Machinery at 10%.
- 3. Provide for Outstanding Salaries of ₹ 20,000.
- 4. Transfer ₹30,000 to General Reserve.
- 5. Provision for taxation is to be made at 35% on the current year's profit.

Seat No.	Set	Р	
	1		

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

		Inte	March/Apri Entrepreneurship ernational Marketing & Ma	(Pa	aper – VIII)	
•			iday, 02-May-2025 // To 02:00 PM		Max. Marks: 4	-0
nstr	uctio	3	<ol> <li>All questions are compulsor</li> <li>Draw neat diagrams and given</li> <li>Figures to the rights indicate</li> <li>Use of logarithmic table and</li> </ol>	ve e e ful		
<b>Q.1</b>	Mult 1)		Choice Questions. at is the term for a tax impose Tariff Embargo		importal goal? Quota	8
	2)	a)	ch of the following is a potenti Cultural difference Political instability	b)	nallenge of International Markets? Legal & regulatory issue All of the above	
	3)		ch of the following is a qualita Survey Focus Grap		market research method? Experiments Sales & Data	
	4)	mar	s kind of product is most likely kets. Musical Recording Automobiles	to reb)	equire adaptation for overseas Films Watches	
	5)	The a) c)	World largest exporter of ser The United States Belgium	vice: b) d)	s is Canada Japan	
	6)	Whi a) c)	ch of the following is not an Ir ICICI IDA	tern b) d)	IMF	
	7)	"Ma of _ a) c)	ny people want BMW, only fe  Need Demands	w ar b) d)	e able to buy" this is example  Wants  Status	
	8)	The a)	Major Objective of any Marke Sell	_	activity is to Promote	

d) Increase awareness

c) Create

<b>Q.2</b>	Ans	wer any Four of the following.	80
	a)	Define Product.	
	b)	What is Segmentation?	
	c)	Define Marketing.	
	ď)	Foreign Trade	
	e)	Customer Loyalty	
Q.3	Wri	te short notes on any Two of the following.	80
	a)	Global Marketing	
	b)	Consumer behavior	
	c)	Super Market	
Q.4	Ans	swer any Two of the following.	80
	a)	Write down types of Product.	
	b)	Explain the function of Whole Seller.	
	c)	Explain the use of Website in Marketing.	
Q.5	Ans	swer any One of the following.	80
	a)	Explain the new trends in Marketing.	
	b)	Explain the types of Distribution Channel.	
	•	•	

Seat	Cat	D
No.	Set	Г

# B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April - 2025 Industrial Chemistry (Paper – VII) Analytical & Industrial Aspects of Physical Chemistry (EN1403)

	Ana	alytic	industrial Chemist al & Industrial Aspects of			EN1403)
			turday, 03-May-2025 I To 02:00 PM			Max. Marks:40
Q.1	Cho	On o	he correct options. dilution, equivalent conductan decreases remains steady	b)	increases	08
	2)	The a)	temperature of the flame is c type of fuel-oxidant type of burner	ontro	olled by factor type of solvent	S.
	3)	a)	ionic product of water is 1 x 10 <sup>-7</sup> 1 x 10 <sup>-10</sup>		1 x 10 <sup>-14</sup> 1 x 10 <sup>14</sup>	
	4)	a)	tal consumption burner, 100% only 5%	b)	the sample is used. 50% nearly 95%	
	5)	a)	titration of AgCI and KCI is _ Acid-base Precipitation	b)	type of titration. redox both a and c	
	6)		equation $I_t = I_o 10^{-\epsilon ct}$ repressambert's law Gilbert's law	b)	Beer's law Einstein's law	
	7)		analysis based on the variange in concentration of the an conductometric potentiometric			stem with
	8)	The a) c)	unit of specific conductance i ohm <sup>-1</sup> m <sup>-2</sup> ohm <sup>-1</sup> cm <sup>-3</sup>	s b) d)	ohm <sup>-1</sup> cm <sup>-1</sup> ohm <sup>-1</sup> cm <sup>-2</sup>	

Q.2	Ans	wer any four of the following	80
	a) b) c) d) e) f)	Mention the demerits of flame photometry.  Define pH and pOH.  What is mean by cell constant?  Define optical density and transmittance.  Draw the neat labelled diagram of calomel electrode.  Give advantages of potentiometric titrations.	
Q.3	Writa) b) c)	te short notes on any two of the following  Construction and working of photovoltaic cell  Total consumption burner  Applications of Beer's law	80
Q.4	Ans a) b) c)	wer any two of the following. What is flame photometer? Explain its principle. Explain single cell photoelectric colorimeter. Explain the determination of transport number by moving boundary method.	08
Q.5	Ans a) b)	wer any one of the following.  Explain conductometric titration between weak acid and strong base.  Explain Hittorf's rule in detail.	80

Seat	Sat	D
No.	Set   I	

# B.Sc. (Entrepreneurship) (Semester - IV) (New) (CBCS) Examination: March/April - 2025 Industrial Chemistry (Paper - VIII) Industrial Aspects of Applied Chemistry (EN1404)

		ı		_	(Paper - VIII) I Chemistry (EN1404	1)
-			onday, 05-May-2025 M To 02:00 PM	5	7	otal Marks : 40
Inst	ructio		<ol> <li>Figures to the right</li> <li>Use of logarithmic</li> </ol>	ms and give nt indicate full c table and c		
Q.1	Fill i	n th	e blanks by choosi	ng correct a	alternatives:	08
	1)	Th a) c)	e main component o silica caustic	of glass is b) d)		
	2)	Ín		ectro- depos b)	sition takes place at	·
	3)	a)		b)	_ plays an important ro Electro-osmosis None of these	ole.
	4)	In a) c)	gravity separation m blast furnace Wilfley table	b) d)		Э
	5)	L.[	D. Process was first	operated in _		
	·	a)	India Italy	b) d)	France Austria	
	6)	a)	orcelain is a type of _ whiteware abrasives	ceramic. b) d)	stone cement	
	7)	a)	ea contains % 45 15	nitrogen. b) d)	60 80	
	8)		glass	m are examp b) d)	oles of ceramics. stone abrasives	

<b>Q.2</b>	Ans	swer the following questions briefly (Any Four).	80					
	1)	State the faradays first law.						
	2)	What is anode efficiency?						
	3)	What are the advantages of L.D. Process?						
	4)	Write any two properties of ceramics.						
	5)	Give the different types cement.						
	6)	What is a commercial glass?						
Q.3		Write short notes (Any Two).						
	1)	Electroplating of chromium						
	2)	Properties of ceramics						
	3)	Colored glass						
Q.4	Ans	swer (Any Two) of the following.	80					
	1)	Explain in brief heat treatment on steel.						
	2)	Discuss in detail the manufacture of glass material by pot furnace.						
	3)	Describe in detail electroplating of Nickel.						
Q.5	Ans	swer (Any One) of the following.	08					
	1)	Explain the construction and working of blast furnace.						
	2)	What is fertilizer? Explain in brief the process of manufacture of urea.						
	-,							

Seat No.							Set	P
В.	Sc.	(Ent	-	March	n/April - : echnolog	gy (Paper-VII)	xamination	:
•			uesday, 06- M To 02:00	May-2025	<b>2.0.0</b> 97	(2111100)	Max. Marks	: 40
Instru	uctio		•	ions are com to the right in		marks.		
Q.1	Mul 1)	Tran		the transfer	b)	information from DNA to mRNA tRNA to mRNA	<u></u> .	08
	2)	chaiı	ns is initiate Arginine	otic and euka ed with	•	ls, the synthesis of p Methionine Valine	rotein	
	3)	Wats a) c)	linear	•	•	structure of DNA supercoiled pleated		
	4)	gene	e than one etic code. reproducit semi cons	oility	•	amino acids is the _degeneracy flexibility	of	
	5)		is purely a	new one and		two newly formed more is an old one  Conservative  Both (b) and (c)	olecules,	
	6)	How a) c)	many struc Three One	ctural genes	are prese b) d)	nt in a lac operon? Two Five		
	7)	The stres	-	r mechanism	recovers b) d)	DNA from damage I LUX SOS	oy external	

	8)	The	process of DNA replicat	ion is affe	ected by an enzyme known as				
		a) c)	 Mutase Polymerase I	b) d)	Ligase Ribonuclease				
Q.2	Ans a) b) c) d) e) f)	b) Define Operon. c) Define Central Dogma. d) Labeled diagram of DNA Structure. e) Define Transcription.							
Q.3	Wri a) b) c)	Explain the rolling circle model of replication.							
Q.4	<ul> <li>Answer the following questions. (Any Two)</li> <li>a) Define DNA replication and enzymes involved in DNA replication.</li> <li>b) Write note on Lactose Operon.</li> <li>c) Explain Salient features of DNA double helix.</li> </ul>								
Q.5	Ans a) b)	Expl	the following question lain Direct repair mechar lain in translation in euka	nism.	,	80			

Seat No.							Set	P
В.	Sc. (	(Ent	-	March/	April -	/) (New) (CBCS) Ex 2025 aper-VIII) (EN1406)	amination	•
•			ednesday, M To 02:00	07-May-2025 PM			Max. Marks	: 40
Instru	uctio	2	2) Draw nea	ions are compl at diagrams who the right indi	nerever	-		
	Mult 1)	-	choice que ich test is us MBRT Phosphata	sed to check tl	b)	ency of pasteurization Resazurin Test Catalase Test	?	80
	2)	a)	TemperatupH only			robial growth in food?		
	3)	a)	T stands for Ultra Heat Under Hig		•	Ultra High Temperat Ultra Hygiene Treatr		
	4)			ollowing is a de ss s				
	5)	Whi a) c)	ich food is r Dried bear Canned ve	ns	ole to mio b) d)			
	6)	lce a) c)	cream hard Before pac Before mix		at what b) d)			
	7)	The a) c)	Only milk	of cheese invo solids d milk protein	b)	Fermented fats Butter and cream		
	8)	Whi a) c)	ich of the fo Drying Frying	llowing is NO	Γa meth b) d)	od of food preservation Freezing Canning	on?	

Q.2	Ans	wer the following questions. (Any Four)	08
	a)	Define homogenized milk.	
	b)	List any two defects of butter.	
	c)	What is pasteurization?	
	d)	What are canned foods?	
	e)	Mention any two uses of cheese.	
	f)	Define Food Poisoning.	
Q.3	Ans	wer the following questions. (Any Two)	08
	a)	Write a note on MBRT.	
	b)	Write a short note on the classification and composition of butter.	
	c)	Discuss the process of canning and its importance in food technology.	
Q.4	Ans	wer the following questions. (Any Two)	08
	a)	Explain the process and significance of phosphatase test.	
	b)	Describe microbial spoilage of fruits and vegetables.	
	c)	Explain food poisoning caused by microorganisms and preventive measures.	
Q.5	Ans	wer the following questions. (Any One)	08
۵.0	a)	Describe the intrinsic and extrinsic factors affecting microbial growth	
	-	in food.	
	b)	Explain different methods of food preservation with examples.	

Seat	Sat	D
No.	Set	

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

	,		<b>•</b>	March/Ap Business Fina	ril - 2		
•				lay, 18-May-2025 o 12:00 PM			Max. Marks: 80
Instr	ructio	ons:	2) [ 3) F	All questions are compu Draw neat diagrams and Figures to the right indic Use of logarithmic table	d give ate fu	equations wherever all marks.	
Q.1 A)	A)		Who	e choice questions. ere is the Head quarter Delhi Chennai		Bangalore	10
		2)	a)	ich of the following is N Commercial Paper Discounting of Bills	b)	Bank Overdraft	•
		3)	a) b) c)	erational technique inclued Diversification of compartments Purchasing of Currence exposure network Both A & c	oany (		
		4)	a)	chasing goods from a fo Import entrepot	oreign b) d)	Export	·
		5)	IMF a) b) c) d)	stands for International Monetary Internal Monetary Fundaly Import Monetary Fundaly International More Fundaly	d I	d	
		6)	Equ a) c)	uity share holder are Ca Owner of Company Execute of the Company	lled _ b) d)	Partner of Compa Guardian of the C	
		7)	FE a) c)	stands for Foreign Exchange First Entry	b) d)	Fast Exchange None of these	

		8)	a) Security Exchange Board of India b) Simple Exchange Board of India c) Social Exchange Board of India d) None of these					
		9)	Who is the only Prime Minister to have server as the Govern RBI?	or of				
			a) P.V. Narsimha Rao b) Manmohan Singh c) Lal Bahadur Shastri d) Indira Gandhi					
		10)	GDR stands for b) Global Depositary Receipt b) Global Decrease Report c) Gold Depositary Report d) None of these					
	B)	1) 2) 3) 4)	Define Capital?	06				
Q.2	Sol 1) 2) 3) 4) 5) 6) 7) 8)	WI WI De WI WI WI	Iny Eight of the following. I hat is Equity? I hat is Foreign Exchange? I hat is Shares? I hat is Management? I hat is Online Trading? I hat is Budget? I hat is Global share? I hat is Business?	16				
Q.3	A)	Att(1) 2) 3)	tempt any Two of the following.  Explain the concept of Capital Budgeting.  Write down Objective of Finance of Planning.  Explain the function of Stock Exchange.	10				
	B)	Wri	rite down Short note of "E-Trading".	06				
Q.4	A)	1) 2) 3)	Write down Concept of Business Finance?	08				
	B)	Des	scribe "Stock Exchange".	08				

#### Q.5 Attempt any Two of the following.

- 16
- a) What is Marketing? Explain the Issue of Marketing Security?
- b) Explain the new Dimension of Business Finance?
- c) Explain the E-Banking.

Seat	Sat	D
No.	Set	Г

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

			ı	March/April Human Resource Mana			
				y, 25-May-2025 12:00 PM		Max. Marks: 8	30
Instr	uctio	3	2) Dra 3) Fig	questions are compulsory aw neat diagrams and giv gures to the right indicate to se of logarithmic table and	e equ full m		
Q.1	A)	1)	HR a)	Iltiple Choice Questions  RM is  A Staff Function  A Company Function	b)	A Line function	10
		2)	a)	rategic thinking is a Short Term Continuous	b)		
		3)	HR a) c)		-	e "as well as" organization Economy Permanantvity	
		4)	Wh a) c)	no takes an active role HR CEO HR Staff		Employee Senior Manager	
		5)	Wh a) c)	_	b)	Human Resource Program Planning Appraising	
		6)	Wh a) c)	nich of the following is a st Job Description Job Evaluation	ated b) d)	our come of" Job Analysis" ? Job Specification All of these	
		7)	OJ a) c)	T stands for On the Job Training On the join Training	b) d)	Off the job Training None of these	
		8)	Fira a) c)	st impression in a perform Hallo Effect Horn Effect	ance b) d)	e appraisal bias denotes Primary Effect Sterao tunpering	

		9)	Re a) c)	emuneration include Gifts Training	b) d)	Transfer Bonus	
		10)	Th	e actual achievement co	mpare	ed with the objectives of the is	
			a) c)	Job performance Job Description	b) d)	Job evaluation None of these	
	B)	Ansv 1) 2) 3) 4) 5) 6)	De De De De	one Sentence efine Resource efine Allowance efine Performance efine Gratuity efine Career efine Security			06
Q.2	Solv 1) 2) 3) 4) 5) 6) 7) 8)	What What What What What What	at is	ght of the following Management? Maintenance? Appraisal? o you System? Development Plan? Online Training? Meaning of Job Specific Meaning of Mobility? Human Resource?	cation?		16
Q.3	A)	Atter 1) 2) 3)	Wı Wı	any Two of the following rite down Need of Performite down Objective Recreptain the role of Human	mance uitmer	nt?	10
	B)	Write	do	wn Short note of "Provid	ent Fu	nd"	06
Q.4	A) 1) 2) 3)	Wri Wri	te do	Any Two of the follow own need of Internal Mo own Steps in Career devown Concept of Manage	bility? ⁄elopm	•	08
	B)	Desc	cribe	e "Training and Develop	ment"		08
Q.5	Atte 1) 2) 3)	Wh:	at is Iain	Two of the Following Human Resource? Exp the Recent Trends in Se	electio	n Process?	16

Seat No.					Set	P
В.	Sc. (	- -	rship) (Semesto March/Ap pectroscopic M	oril - 2		:
-		e: Monday, 05- 0 AM To 12:00	-		Total Marks	s: 80
Instruc	ctions	<ul><li>2) Draw neat</li><li>3) Figures to</li></ul>	ons are compulson t labelled diagram right indicate full table and calcula	s wher marks		
Q.1	A) 1)	•	ice questions. troscopy, higher $\delta$	i value:	s show	10
	•,	a) upfield	arocopy, mg.ro. o	b)	resonance	
		c) downfiel	d	d)	flipping	
	2)	-		lotting	and on X and Y-	
		axis respective	•	b)	abundanaa maaa / abarga	
			abundance narge on ions	-	abundance, mass / charge mass, abundance	
	۵۱	•		ŕ		
	3)	a) 4000 - 1	al group region is i 350 cm <sup>-1</sup>		/een 1350 - 650 cm <sup>-1</sup>	
		c) 4000 - 6			2000 - 950 cm <sup>-1</sup>	
	4)	Due to hydro	aen bondina, the l	IR abs	orption band becomes	
	-,	a) Sharp	gen senang, are .	b)	Intense	
		c) Broad		d)	Weak	
	5)		ectrometer was di		-	
		a) Francis	Aston ). Lawrence	,	Walter Kaufmann J. J Thomson	
		,		,		
	6)		tion maximum val his phenomenon		shifted towards longer	
		a) Hyperch	•	b)	Hypochromic	
		c) Bathoch		ď)	Hypsochromic	
	7)	In an applied	magnetic field, the	e numl	ber of orientations of nucleus is	
		given by	_•	Ŀ١	01 4	
		a) 2l + 1 c) 2l + 2		b) d)	2l – 1 2l – 2	
		,		' /		

8)	In B	eer-Lambert's law the term	epsilo	n is known as	
	a)	molarity	b)	molar coefficient	
	c)	molality	d)	molar extinction coefficient	
9)	basi	separation of ions in mass s		·	
	•	Mass Molecular weight	b) d)	Charge Mass to charge ratio	
10)	Unit	of chemical shift is			
,	a)	Hz	b)	ppm	
	c)	Cps	ď)	Unit less	
B)	Fill	in the blank			06
,	a)			onal frequency of vibration is	
	b)	directly proportional to the In mass spectroscopy, the		sity assigned to peak is	
	•	100%.			
	-			ke place in different planes.	
	-	type of electronic trans IR spectroscopy is mainly to			
	f)			to that incident light is known	
		as			
Solve	e any	Eight of the following.			16
a)		culate the modes of vibration			
b)		e the $(n + 1)$ rule in spin-spi			
c) d)		at is mean by IR active trans / TMS used as internal refer			
e)	•			etic nuclei with suitable example.	
f)	Exp	lain hypsochromic shift.		•	
g)		ne coupling constant with ex	•	e.	
h) i)		ne parent ion and fragment at is mean by auxochrome a		romonhore	
i) j)		culate $X_{max}$ for the following			
•,		odward-Fieser rule:			
				0	
			1		

**Q.2** 

compounds i) 2-Chloro-2-methyl butane ii) 1,2-dibromoethane iii) 2-Nitropropane  Q.4 A) Attempt any Two of the following. a) Discuss the effect of conjugation on the position of UV bands with example. b) Explain in detail the basic principle of mass spectroscopy. c) What is mass spectrum? Explain with suitable example.  B) What are the scale used in NMR spectroscopy for the measurement of chemical shift? how they are related to each other?	Q.3	A)	<ul> <li>a) How Mass Spectroscopy can be used for the determination of molecular weight.</li> <li>b) Explain principle and application of IR spectroscopy.</li> <li>c) Calculate the fundamental mode of vibrations of methane and benzene.</li> </ul>	10
<ul> <li>a) Discuss the effect of conjugation on the position of UV bands with example.</li> <li>b) Explain in detail the basic principle of mass spectroscopy.</li> <li>c) What is mass spectrum? Explain with suitable example.</li> <li>B) What are the scale used in NMR spectroscopy for the measurement of chemical shift? how they are related to each other?</li> <li>Q.5 Attempt any Two of the following.</li> <li>a) Sketch the mass spectrophotometer and explain it's working in brief.</li> <li>b) A compound having molecular formula C<sub>5</sub>H<sub>10</sub>O exhibits the following spectral data: <ul> <li>IR - sharp; strong band at 1735 cm<sup>-1</sup></li> <li>NMR = i) t, δ 2.32 (2H); ii) s, δ 2.03 (3H); iii) Sextet, δ 1.56 (2H); iv) Triplet, δ 0.89 (3H)</li> </ul> </li> </ul>		B)	compounds i) 2-Chloro-2-methyl butane ii) 1,2-dibromoethane	06
<ul> <li>of chemical shift? how they are related to each other?</li> <li>Q.5 Attempt any Two of the following.</li> <li>a) Sketch the mass spectrophotometer and explain it's working in brief.</li> <li>b) A compound having molecular formula C<sub>5</sub>H<sub>10</sub>O exhibits the following spectral data: <ul> <li>IR - sharp; strong band at 1735 cm<sup>-1</sup></li> <li>NMR = i) t, δ 2.32 (2H); ii) s, δ 2.03 (3H); iii) Sextet, δ 1.56 (2H); iv) Triplet, δ 0.89 (3H)</li> </ul> </li> </ul>	Q.4	A)	<ul><li>a) Discuss the effect of conjugation on the position of UV bands with example.</li><li>b) Explain in detail the basic principle of mass spectroscopy.</li></ul>	80
<ul> <li>a) Sketch the mass spectrophotometer and explain it's working in brief.</li> <li>b) A compound having molecular formula C<sub>5</sub>H<sub>10</sub>O exhibits the following spectral data: IR - sharp; strong band at 1735 cm<sup>-1</sup> NMR = i) t, δ 2.32 (2H); ii) s, δ 2.03 (3H); iii) Sextet, δ 1.56 (2H); iv) Triplet, δ 0.89 (3H) </li> </ul>		B)	' ' '	80
c) Discuss in detail the applications of UV spectroscopy.	Q.5	a)	Sketch the mass spectrophotometer and explain it's working in brief. A compound having molecular formula $C_5H_{10}O$ exhibits the following spectral data: IR - sharp; strong band at 1735 cm <sup>-1</sup> NMR = i) $t$ , $\delta$ 2.32 (2H); ii) s, $\delta$ 2.03 (3H); iii) Sextet, $\delta$ 1.56 (2H);	16
		c)		

Seat		1
No.	Set	P

### B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS) Examination: March/April - 2025 Advances in Fermentation Technology (EN1505-A)

		Ad	dvances in Fermentatio	n Te	chnology (EN1505-	-A)
•			esday, 06-May-2025 To 12:00 PM			Max. Marks: 80
Instr	uction	2)	All questions are compulso Draw neat labelled diagran Figures to right indicate full Use of log table and calcul	ns wh I marl	KS.	
Q.1	<ul> <li>Q.1 A) Multiple choice questions.</li> <li>1) The term "WIPO" stands for</li> <li>a) World Investment Policy Organization</li> <li>b) World Intellectual Property Organization</li> <li>c) Wildlife Investigation and Policing Organization</li> <li>d) World Institute for Prevention of Organized C</li> </ul>				anization ng Organization	10
	2)	Wha a) c)	at protects the intellectual p Patents Trademarks	orope b) d)	rty created by artists? Copyright Registered designs	
	3)	Wha a) c)	at protects the intellectual p Trademarks Patents	orope b) d)	rty created by invento Copyright Geographical indica	
	4)	Wha a) c)	at does BSL stand for in lat Biosecurity Level Biological Safety Level	b)	-	•
	5)	Typ a) c)	es of vector for vaccine Heterologous Both a & b	b) d)	Homologues None of the above	
	6)	The a) c)	concept of vaccination wa Edward Jenner Louis Pasteur		developed by Carl Landsteiner Joseph Meister	
	7)		process of introduction of alled Immunization Vaccination	weak b) d)	ened pathogen into h Attenuation None of these	uman body

	8)		Which enzyme is used to join together two different types of DNA molecules?					
		a)	Endonuclease Exonuclease	b) d)	ligase Protease			
	9)	Whi a) c)	ich is a genetically modit Bt-cotton Golden rice	-	o? Bt-brinjal All of the above			
	10)	Exc a) c)	ision and insertion of a g Genetic engineering Cytogenetics		Biotechnology			
Q.1	B)				ntence answer/ One-word	06		
	1)		swer/ Give the 06 name is the right granted by ers from the commercial	a gover	nment to an inventor to prevent			
	2) 3) 4) 5) 6)	Typ Salk Typ Defi	ers from the commercial less of BSL Laboratories k vaccine is used agains less of vaccine ine vector AC stands for		nis invention.			
Q.2	Solve a) b) c) d) e) f) g) h) i)	e (Any Eight) of the following.  Test for sterility Biosafety Level 3 WTO Test for Carcinogenicity Basics of bioethics principles Bioethics and Biosafety codes and guidelines in India Vaccine Interferon Bacteriocin PHB				16		
Q.3	<b>A)</b> 1) 2) 3)	Des prac Exp	empt (Any Two) of the scribe in detail quality mattices and safety. It is detail WTO.  Scribe in detail WTO.  Scribe in detail Plant Varie	anagem	ent for good manufacturing	10		
	В)	Sho	ort note/Solve. ort note on copyrights	<b>,</b>	<b>g</b>	06		
Q.4	<b>A)</b> 1) 2) 3)	Disc Exp	empt (Any Two) of the cuss in detail Biosafety le clain in brief pre-clinical a	evels ar and clini	d laboratory. cal trials.	80		

C		D	1	_	$\Box$	-3	F
J	ᆫ	П	-	ľ	u	-ئ	J

### Q.4 B) Short Note/ Solve.

80

Short note on recombinant DNA technology for Cultivation of Mushroom.

### Q.5 Attempt (Any Two) of the following.

16

- a) Discuss in detail Nicin as a natural bio preservative.
- b) Explain in brief Genetic Engineering in Microbes with suitable example.
- c) Describe in detail Production of glycerol.

Seat No.		Set P	)
В.	Sc.	Entrepreneurship) (Semester - V) (New) (CBCS) Examination:  March/April - 2025  Wine Technology (EN1505-B)	
•		e: Tuesday, 06-May-2025 Max. Marks: 80 O AM To 12:00 PM	0
Instruc	ction	<ul><li>s: 1) All questions are compulsory.</li><li>2) Draw neat labelled diagrams wherever necessary.</li><li>3) Figures to right indicate full marks.</li></ul>	
Q.1	A) 1)	Multiple choice questions.  yeast used in wine fermentation. a) S. cerevisiae b) S. ellipsoideus c) Both a & b d) Only a	O
	2)	From where did winemaking most likely originate? a) Georgia and Iran b) Morocco and Egypt c) France d) Italy	
	3)	White wines can be made from only  a) Green grapes only b) Any colour of grapes c) White skinned grapes only d) Red or black	
	4)	factor greatly influences the fermentation process of wine yeast. a) pH level b) Oxygen concentration c) Soil temperature d) CO <sub>2</sub> & water	
	5)	Most wines in the market are made from the grapes species. a) VitisLabrusca b) VitisVinifera c) Vitis Concord d) VitisRotundifolia	
	6)	What answer best completes this wine making equation?  (Grapes) Sugar + Yeast =  a) Alcohol + Acid b) Acid + Water + Heat c) Fruit Flavors + Water d) Alcohol + CO <sub>2</sub> + Heat	
	7)	is an example of post-fermentation wine production technique.  a) Crushing b) Yeast inoculation c) Blending d) Cap management	
	8)	The clarification of wine takes place  a) After primary fermentation b) After aging c) Before bottling d) After secondary fermentation	

	9)	Ferm	entation occurs in the	ne			
			Presence of oxygen			Absence of oxygen	
		C)	Presence of nitroger	n d	1)	Presence of carbon	
	10)	oxida a)	ervatives are commo ation is an exar Hydrogen Dioxide Potassium Dioxide	mple of su b	ıch )	orevent bacterial spoilage and a preservative. Calcium Dioxide Potassium metabisulphite	
	B)	answ	ver/ Give the name			ence answer/ One-word product etc.	06
	1) 2)		e natural wine. examples of yeast ι	isad in wi	na f	ermentation	
	3)		e must?	asca iii wii	110 1	cimentation.	
	4)		are the properties of	of wine?			
	5)		t the acids used to lo	-	oH d	of must and wine.	
	6)	Defin	e Wine technology.				
Q.2	Solve a)	Defin	Eight) of the follow the fermentation.				16
	p)		is sulphurization pr				
	c) d)		t the Grape varieties e aging.	s used in v	wine	e production.	
	e)		is Fortified Wine?				
	f)	Whic	h factors influencing	taste per	rcep	otion of wine?	
	g)		is chemical constitu	uents of o	ak?		
	h)		e clarification.				
	i) j)		is organic wine? e maceration.				
Q.3	<b>A)</b>		npt (Any Two) of th		_		10
	1) 2)		ermentation practice ribe in short Wine cl		•	duction.	
	3)					es of oak cooperage in wine	
	٠,	-	uction.			or control of the con	
Q.3	B)	Write	a short note on effe	ect of alco	holi	c beverages on human health.	06
<b>Q.4</b>	A)		npt (Any Two) of th		_		80
	1)		a note on Wine Lav		uthe	entication.	
	2)		nical constituents of		n in	Wine Technology	
	3)	шро	rtance of automation	operatio	11 11	wine recrinology.	
Q.4	B)	Desc	ribe in short spoilag	e of wine.			80
Q.5	<b>A)</b> a)		mpt (Any Two) of the in detail on environ		_	s affecting wine fermentation.	16
	b) c)	Desc		y percepti	ion	and assessment of wine.	

SLR-YD-37
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Seat		
No.	Set	Р

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

		(	March/Apri Englis Business Engl	il - 20 sh		
-			ednesday, 30-April-2025 // To 11:00 AM		Max. Marks	: 40
Instr	uctio		<ul><li>I) All questions are compulsor</li><li>2) Figures to the right indicate</li></ul>		narks.	
Q.1	Choo 1)		the correct alternatives from at occasion is being celebrate Easter New year's		given options. ne story 'The Gift of the Magi'? Christmas Della's Birthday	80
	2)	Wha a) c)	at did Della sell off to buy a gif jewellery her hair	t for J b) d)	lim? fur coat combs	
	2)	Wha a) c)	at did Phatik loose? school textbook marbles	b) d)	fishing rod shoe	
	3)		at was the solitary reaper doin tary Reaper'? Tilling the field Reaping the harvest	g in th b) d)	ne field in the poem 'The Watering Planting	
	4)	a)	snatched the Queen's mirro King A rival	r? b) d)	Her daughter New bride	
	5)	The a) c)	poem 'The Village School Ma Alexander Pope Oliver Goldsmith	aster' b) d)	is composed by Robert Frost William Shakespeare	
	6)	Whea)	ere did the two roads diverge on the brown road on the grey road	in the b) d)	poem 'The Road Not Taken'? in the yellow wood on the green road	
	7)	Roha) b) c) d)	an loves Rajeev. (change the Rajeev is loving Rohan. Rajeev loved Rohan. Rohan is being loved by Raje Rajeev is loved by Rohan.		e of this sentence)	

## SLR-YD-37

	8)	Υοι	ı must _	you	ır social wo	rk des	pite th	e pandem	iiC.		
		a)	carry u	р		b)	carry	on on			
		c)	carry w	rith		ď)	carry	ı in			
Q.2	Ans	swer	the follo	wina au	estions. (A	nv Fo	our)				12
	a)			•	Della's hair	•	,				
	b)				her readily		to the	uncle's o	ffer?		
	c)	Des			nature and h	•				ary	
	d)	Why	•		satisfied ar	id seel	k a riva	al in the p	oem 'The	<b>;</b>	
	e)	How	did the	villagers	regard the	schoo	l mast	er?			
	f)			•	ice of two re				ad Not Ta	aken'?	
Q.3	Ans a) b)	Wha	at are 21	st century	<b>lestions. (A</b> / skills? Dea of 21 <sup>st</sup> centu	scribe	any fiv	ve skills.			10
Q.4			_	2	of the foll earning ski	_	-				10

Seat	Sat	D
No.	Set	

## B.Sc. (Entrepreneurship) (Semester - V) (Old) (CBCS) : Examination March/April - 2025 Business Finance (EN502)

				Busines	ss Finan	ce (E	EN502)	
-				lay, 18-May-2025 o 12:00 PM			Max. Mark	ks: 80
Inst	ructi	ons	2) [ 3) F	All questions are co Draw neat diagram Figures to the right Use of logarithmic t	s and given indicate f	e equ		
Q.1	A)		Bus a) b) c)	e choice question siness finance is pr Managing a comp Marketing a comp Hiring and manag None of the above	imarily co pany's fina pany's pro ging empl	ancia oduct:	l s and services	10
		2)	a)	e difference betwee Equity Share Cap Owners Equity	oital	b)	ets and current liabilities is Working Capital Fixed assets	·
		3)	a)	de credit is a sourd Short term finance Long term finance	е	b)	Medium term finance All the above	
		4)	a)	Reserve Bank of 1934 1948	India was	esta d) d)	1945	
		5)	The a) b) c) d)	e primary function of Promote exports Regulate the mor Provide loans to i Collect taxes	netary sys	tem	,	
		6)	a) b) c)	e first computerized NSE BSE Ahmadabad stock Pune stock excha	k exchanç		exchange in India was	

		7)	a) c)	is the teri Retail bank NBFC		bank that b) d)	at operates exclusively online. Investment bank Neobank	
		8)			nviting to sub	scribe to	o the shares of a company	
			a)	Prospectus Articles of A		b) d)	Memorandum of Association Share certificate	
		9)	BSE a) c)		ished on	 b) d)	1975 1855	
		10)	a)	A lessor an	ent is a contr d a lessee d a buyer	act betv b)	veen A bank and a customer A borrower and a lender	
	B)	1) 2) 3) 4)	Wh Wh Wh Lor Lor	r in one sen hat is debent hat is venture hat is stock e ng Form of S ng Form of E ng Form of F	ure? e capital? exchange? SEBI. SSE.			06
Q.2	So 1) 2) 3) 4) 5) 6) 7) 8) 9) 10)	W W W De W De	hat is hat is hat define hat is efine hat is efine	ight of the factorial signature? In ance? In ance? In a properties of the factorial places of the fact	share? e? by commerc nange rate. s?	ial bank	?	16
Q.3	A)	Att 1) 2) 3)	Ob So	jective of bu	of the followi siness financ king capital fi financing.	e.		10
	B)			hort Note. role of SEBI	l.			06
Q.4	A)	<b>An</b> 1) 2) 3)	Dis Wr	cuss recent ite note on F	f the following development forex market.	ts in cor	nmercial banking.	80

	B)	Describe the following.  Explain functions of stock exchange.	08
Q.5	Ans a)	swer any Two of the following. What is business finance? Explain long term sources of business	16
	b)	finance. What is stock exchange? Write note on BSE and NSE. What is capital budgeting? Explain methods of ranking project.	

Seat	Sat	D
No.	Set	

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

	<b>D.</b> 30.	. ( <b>L</b> III	-	March/Apri March/Apri an Resource Mar	I - 20	
-			day, 25-N To 12:00	Лау-2025 РМ		Max. Marks: 80
Instr	uction	2)	Figures	ions are compulsory to the right indicate at diagrams and give	full m	arks. ations whenever necessary.
Q.1	A)	Cho	Human a) Dev	resource managem	ent ei b)	Punishment of people
		2)	a) Syn	job training methods dicate sitivity training	b)	ude Vestibule training All of these
		3)	a) Qua	s of job evaluation a alitative method h (a) and (b)	b)	Quantitative method None of these
		4)	job. a) Job c) Job	description Evaluation	b) d)	•
		5)	employers and the a) Perf	-	atters er job t	e, and impartial rating of an sepertaining to their present job o. o) Compensation & motivation d) Performance indicator
		6)	a) Free	-		b) Paired comparison method d) All of these
		7)	a) Ass b) Mar c) BAF	n methods of perform essment center met nagement by objective RS (Behaviorally And of these	hod ves	appraisal are d Rating Scale)

		8)	appraisal is known as					
			<ul><li>a) 360° appraisal system</li><li>c) All round review</li></ul>	-	Human resource accounting Feed forward			
		9)	is a performance appagreement between employ achieved in a given period.		I technique that involves and manager on goals to be			
			a) MBO c) BARS	b) d)	Rating scales BOS			
		10)	HRM is a) Interrelated c) Interacting	b) d)	Interdependent All of these			
	В)	1) 2) 3)	or skills of an employee to put Method of job evaluation into The process of studying and is known as  On-the-job training includes The process of familiarizing rules and regulations is known as	arting perfor clude d gath new wn as	g or enhancing the knowledge m a specific job nering information about a job employees with the organization	<b>06</b> n's		
Q.2	Solv 1) 2) 3) 4) 5) 6) 7) 8)	Defi Enu Wha Defi List Prod Ider prod Exp	reight of the following ine Human Resource Managemerate the functions of Human is Allowance? The promotion and transfer in various types of employee by vide a definition for performantify and describe the element gram. It is the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of selection is cribe the need for training with the concept of the concept	an Renther and Ren	esource Management (HRM).  ovide a definition. ontext of HRM. s provided by organizations. ppraisal (P.A.). a career development  liscuss its importance.	16		
Q.3	A)		mpt any Two of the following Provide an example of an interest explain its benefits.  Analyze the objectives of Hagoals.  Differentiate between the restraditional methods.	nterna RM in	achieving organizational	10		
Q.3	B)	Write	short note on Elements of a	ccide	nt prevention.	06		

80

<b>~.</b> .	<i>-</i> -,	, memper, my i me er mie rene ming	-
		<ol> <li>Assess the overall impact of training on employee development a organizational growth.</li> </ol>	and
		<ol> <li>Evaluate the impact of HRM on employee performance and satisfaction.</li> </ol>	
		3) Design a job description for a new role in your organization.	
	B)	Critically evaluate the essential elements of an effective selection procedure.	
Q.5	Atte	empt any Two of the Following	16
	a) b) c)	Evaluate the need for internal mobility in enhancing employee. Assess the effectiveness of succession planning in organizational. Assess the impact of employee health and safety programs on overall employee well-being.	

A) Attempt Any Two of the following

**Q.4** 

Seat No.				Set F	)
В	.Sc.	(Entrepreneurship) (Semeste March/Apr Spectroscopic Mo	il - 2	2025	
•		e: Monday, 05-May-2025 0 AM To 12:00 PM		Max. Marks: 8	0
Instru	ıctioı	ns: 1) All questions are compulso 2) Figures to right indicate full	•	·ks.	
Q.1	1)	Multiple Choice Questions.  Bathochromic shift involves a) increase c) remains as it is  IR spectroscopy is also called as a) electronic c) vibrational	b) d) s	decrease None of these spectroscopy. Raman	0
	3)	In NMR spectroscopy ra a) visible c) ultraviolet		non-visible	
	4)	A cation is formed in mass specis  a) radical cation c) a & b	trom b) d)	eter having unpaired electron molecular ion zwitter ion	
	5)	a) NH <sub>2</sub> c) OH	ore. b) d)	CO CH₃	
	6)	a) IR c) UV	deter b) d)	mine functional group. NMR Mass	
	7)	Higher $\delta$ values shows a) upfield c) flipping	b) d)	resonance deshielding	
	8	) Compound having normal mas is a) CH <sub>3</sub> CH = CH <sub>2</sub>	s is 4	44 then its structural formula $CH_3C \equiv CH$	

 $CH_3$ CH - CH<sub>3</sub>

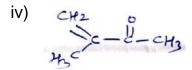
 $CH_3$ 

d)

c) CH<sub>3</sub>CH<sub>2</sub>CH<sub>3</sub>

9)	<ul> <li>λ max is shifted to longer wavelength due to presence of</li> <li>a) cyclic structure</li> <li>b) conjugation</li> <li>c) saturated group</li> <li>d) hydrogen</li> </ul>	
10)	molecule does not show IR absorption.  a) $CCI_4$ b) $N_2$ c) $CI_2$ d) all	
1) 2) 3) 4) 5)	is used as internal reference in NMR spectroscopy. Fragment ions of methane are Shift of absorption maxima to shorter wavelength is The range of IR radiation is  1,3-dibromobutane has types of protons.	06
a) [ c) 5 d) 5 d) 6 f) 6 f) 6 f) 6 f) 6 fi 6 fi 6 fi 6 f	Define auxochrome, give its example. Define chromogen, give its example. State & explain selection rule. State & explain Hook's law. What is the principle of IR spectroscopy? Give the classification of vibrations. Explain processional motion of nuclei. Define peak area. Explain coupling constant.	16
1) 2)	Explain application of UV spectroscopy.  What do you understand the term chemical shift?	10
<b>B)</b> E	Explain fundamental group region	06
-		08
	10)  B)   1) 2) 3) 4) 5) 6)  Answ a)   6) b)   6  b)   7  f)   7  A)   7  B)   8  B)   9  B)	c) saturated group d) hydrogen  10) molecule does not show IR absorption. a) CCl <sub>4</sub> b) N <sub>2</sub> c) Cl <sub>2</sub> d) all  B) Fill in the blanks. 1) is used as internal reference in NMR spectroscopy. 2) Fragment ions of methane are 3) Shift of absorption maxima to shorter wavelength is 4) The range of IR radiation is 5) 1,3-dibromobutane has types of protons. 6) The deflection of ions in mass spectroscopy depends on  Answer any Eight of the following. a) Define auxochrome, give its example. b) Define chromogen, give its example. c) State & explain selection rule. d) State & explain Hook's law. e) What is the principle of IR spectroscopy? f) Give the classification of vibrations. g) Explain processional motion of nuclei. h) Define peak area. i) Explain coupling constant. j) Give the principle of mass spectroscopy.  A) Answer any Two of the following. 1) Explain application of UV spectroscopy. 2) What do you understand the term chemical shift? 3) Explain formation of ions by ionization.  B) Explain fundamental group region  A) Answer any Two of the following. 1) Explain \(\lambda_{max}\) values of following compound. i)  Explain \(\lambda_{max}\) values of following compound. i)

16



- 2) Draw neat labelled diagram of double beam spectrophotometer.
- 3) Draw neat labelled diagram of NMR instrument.
- B) Explain various types of ions produced in mass spectroscopy. 08

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

- a) Explain various types of electronic transitions in UV spectroscopy.
- **b)** Draw neat labelled diagram of mass spectrophotometer. Give the applications of mass spectroscopy.
- Deduce the structure of compound with the help of following data. Molecular formula – C3H6O2

m/e -76 IR  $-1720, 3600 \text{ cm}^{-1}.$  PMR  $1.15 \delta (3H, t)$   $2.28 \delta (2H, q)$   $11.73 \delta (1H, S)$ 

	GROUP			REQUENCY RANGE cm <sup>-1</sup>	INTENSITY
Ā.	Alkyl	**	***********		 
•	C - H (stretching)			2853 - 2962	(m-s)
	Isopropyl - CH(CH <sub>3</sub> ) <sub>2</sub>			1380 - 1385	(s)
			and	1365 - 1370	(s)
	tert - Butyl - C (CH <sub>3</sub> ) <sub>3</sub>			1385 - 1395	(m)
	• , 55			and - 1365	(s)
В.	Alkenyl				80
	C-H (stretching)			3010 - 3095	(m)
	C = C (stretching)			1620 - 1680	(v)
	$R - CH = CH_2$			985 - 1000	(s)
			an	d 905 – 920	(s)
	$R_2 C = CH_2$	(out of plane		880 - 900	(s)
	cis - RCH = CHR	C-H bendings)		675 - 730	(s)
	trans - RCH = CHR			960 - 975	(s)
		*		EI	
<b>:</b> .	Alkynyl			2200	7-5
	≡ C - H (stretching)			- 3300	(s)
	$C \equiv C \text{ (stretching)}$			2100 - 2260	(v)
).	Aromatic				
	Ar - H (stretching)			- 3030	(v)
	Aromatic substitution t	•			
	(C-H out-of-plane bene	dings)			
	Monosubstituted		0.2708	690 – 710	(very s)
			and	730 – 770	(very s)
	o – Disubstituted			735 – 770	(s)
	m - Disubstituted			680 - 725	(s)
	<b>D</b> . 1 1		and	750 - 810	(very s)
	p – Disubstituted			800 – 840	(very s)
E.	Alcohols, Phenols, Car	boxylic Acids			
	OH (alcohols, phenols,	TO 이번 하나님들이 있는 TO TO THE SERVE HEAD TO SERVE TO		3590 - 3650	(sharp v)
	OH (alcohols, phenols,			3200 - 3550	(broad s)
	OH (carboxylic acids,	hydrogen bonded)		2500 - 3000	(broad v)
F.	Aldehydes, Ketones, Es	sters and			
	Carboxylic Acids				
	C = O stretch	1720		1630 - 1780	(s)
	aldehydes - 1720 {Stre	2700 - 2900		1690 - 1740	(s)
	ketones			1680 - 1750	(s)
	esters			1735 - 1750	(s)
	carboxylic acids			1710 - 1780	(s)
_	amides			1630 – 1690	(s)
G.	Amines			2200 2200	
10	N – H			3300 – 3500	(m)
Н.	Nitriles			Exchange of the second	
	$C \equiv N$			2220 - 2260	(m)

 $\begin{aligned} TABLE-2 \\ Approximate Proton Chemical Shifts in NMR \end{aligned}$ 

TYPE OF PROTON	CHEMICAL SHI	FT, DELTA, PPM (δ)
1° Alkyl, RCH <sub>3</sub> 2° Alkyl, RCH <sub>2</sub> R 3° Alkyl R <sub>3</sub> CH Allylic, R <sub>2</sub> C = C - CH <sub>3</sub>	0.8 - 1.0 $1.2 - 1.4$ $1.4 - 1.7$ $1.6 - 1.9$	O $\parallel$ Ester R - C - O -CH <sub>2</sub> - R 4 to 4.5 N - CH <sub>3</sub> 2.3
R	16	3 2.5
Benzylic, ArCH <sub>3</sub>	2.2 - 2.5	
Alkyl chloride, RCH <sub>2</sub> Cl	3.6 - 3.8	6
Alkyl bromide, RCH <sub>2</sub> Br	3.4 - 3.6	
Alkyl iodide, RCH <sub>2</sub> l	3.1 - 3.3	
Ether, ROCH <sub>2</sub> R	3.3 - 3.9	
Alcohol, HOCH <sub>2</sub> R	3.3 - 4.0	
Ketone, RCCH <sub>3</sub>	2.1 - 2.6	
d d		
Aldehyde, RCH	9.5 – 9.6	
Vinylic, $R_2C = CH_2$	4.6 - 5.0	
Vinylic $R_2C = CH$	5.2 - 5.7	
R		
Aromatic, ArH	6.0 - 9.5	
Acetylenic, RC ≡ CH	2.5 - 3.1	
Alcohol hydroxyl, ROH	$0.5 - 6.0^{a}$	
Carboxylic, RCOH	$10 - 1.3^{a}$	
Ь		
Phenolic, ArOH	$4.5 - 7.7^{a}$	
Amino R- NH <sub>2</sub>	1.0 - 5.0	

## Spectroscopic Chart

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

## A) For substituted dienes (Ethanol solution)

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

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

No	. Basic value	λ <sub>max</sub> (nm)
1)	Ketones: $-\overset{\beta}{\overset{\square}{\overset{\square}{\overset{\square}{\overset{\square}{\overset{\square}{\overset{\square}{\overset{\square}{$	
	a) Acyclic or 6 - membered ring	215
	b) 5 – membered ring	202
2)	Aldehydes $-C = C - CHO$	207
3)	Extended Conjugation	30
	$-\overset{\delta}{C}=\overset{\gamma}{C}-\overset{\beta}{C}=\overset{\alpha}{C}-CO-etc.,$	
4)	Homodiene component	39
5)	a) If one double bond is exocyclic to one ring	5
	b) If exocyclic to two rings simultaneously	10
6)	Addition for substituents	

9	Substituents		Pos	ition	. t 65
		α.	В	у	δ
a)	- R alkyl (including part of carbocyclic ring)	10	12	18	18
b)	- OR (alkoxy)	35	30	17	31
c)	- OH (hydroxy)	35	30	-	50
d)	- SR (thioether)	-	85		-
e)	– Cl-(chloro)	15	12		-
f)	– Br (bromo)	25	30	-	-
g)	- OCOR (acyloxy)	6	6	-	6
h)	- NH <sub>2!</sub> - NHR, - NR <sub>2</sub>	-	95	-	-

### Solvent correction

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

Seat	Sat	D
No.	Set	

## B.Sc. (Entrepreneurship) (Semester - V) (Old) (CBCS) Examination: March/April - 2025 Advances in Fermentation Technology (EN505)

		Advances in Fe	ermentation 7	Technol	ogy (EN505)	
•		iesday, 06-May-2 // To 12:00 PM	025		Max. Marks:	80
Instruction	2)	All questions are Draw neat labell Figures to right i Use of log table	ed diagrams wl ndicate full mai	ks.	•	
Q.1 A) 1)		Yeast species	duction of xantl b)	E. Co		10
2)		Amylase	n example of d b) d)	Xanth	an	
3)		ection. Insulin	substance prod b) d)	DNA	nost cell after viral	
4)		symbol, word, or voresenting a comp Copyright Secret		is Trade		
5)		is a polycyclic ctococcus lactis the Pancreas Antibiotic	•	food pre Chee		
6)		ting a sample of t Quality control	he output agair b)	nst the sp Qualit	nanufactured products by pecification.  y management by nuisance	
7)	Aga a) c)	<i>aricusbisporus</i> is Right Class	an example, of b) d)	Butto	ı	

	8)	ideas that are of value.	
		a) Ethical b) Moral	
		c) Social d) Commercial	
	9)	PHB is	
		a) Polyhydroxybutyrate b) Polyhydroxide	
		c) Polysorbate d) Polyhydroxyaldonate	
	10)	Plasmid encoding antigenic protein of pathogen if injected directly	
		into the cell its expression constitutes vaccine.	
		a) DNA b) Polysaccharide	
		c) Subunit d) Attenuated	
	B)	Answer the following.	06
	1)	What is IPR?	
	2)	Enlist the applications of Xanthan gum.	
	3)	Define Biosafety What is GLP?	
	4) 5)	Define Toxoid.	
	6)	What is attenuated vaccine?	
Q.2	Solve	e (Any Eight) of the following.	16
Q.L	a)	What is TRIPS?	
	•	What is subunit vaccine?	
	c)	Define bioethics.	
	d)	What is international code?	
	e)	What is pyrogen?	
	f)	Enlist the names of rubber producing microorganisms.	
	g) h)	Enlist applications of glycerol. What is Trade secret?	
	i)	What is significance of sterility testing?	
	j)	Enlist application of bacteriocin.	
Q.3	A)	Write (Any Two) of the following.	10
	a)	Discuss in brief test for carcinogenicity.	
	b)	Explain in detail production of Xanthan gum.	
	c)	Describe in detail production of peptide vaccine	
Q.3	B)	Explain in detail the process of acetone – butanol production with its applications.	06
		αργιισατίστο.	
<b>Q.4</b>	A)	Attempt (Any Two) of the following.	80
	a)	Describe in detail production of Pullulan and its role.	
	b)	Describe in detail GMP.  Explain in detail the process of vinegar production	
	c)	Explain in detail the process of vinegar production.	
	B)	Write detail account on mushroom cultivation	80

- 16
- Q.5 Attempt (Any Two) of the following.a) Define patent and give suitable example of patenting of biological material.
  - Write in detail insulin production. b)
  - Explain in detail IPR and its types. c)

Seat	Sat D
No.	Set P

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

·	3.00	- \-	March/Ap Wine Technol	ril - 20	)25	auom
•			Wednesday, 07-May-2025 AM To 12:00 PM		М	ax. Marks: 80
Inst	ructio	ons	<ul><li>1) All questions are compulse</li><li>2) Figures to the right indicate</li><li>3) Draw neat labelled diagrare</li><li>4) Use of log table and calculate</li></ul>	e full n	erever necessary.	
Q.1	A)	<b>Μ</b> ι 1)	ultiple choice questions product is not formed a) Lactate c) Ethanol	_	fermentation. Carbon dioxide Oxygen	10
		2)	Anaerobic respiration by year a) Wine and Beer c) Alcohol	st resu b) d)	CO <sub>2</sub>	f
		3)	<ul><li>is a downstream proce</li><li>a) Screening</li><li>b) Media formulation</li></ul>	b)	Product recovery Sterilization of media	ı
		4)	Alcoholic fermentation is carr a) Lactobacillus b) Escherichia coli c) Bacillus d) Saccharomyces cerevisia		t by yeast	
		5)	The yeast generated during to separated by  a) centrifugation b) filtration c) cell disruption d) all of these	he ferr	mentation of beer is ge	enerally
		6)	Wine is obtained after alcoho a) Rice c) grapes	olic ferr b) d)	mentation of wheat barley	
		7)	A hydrometer  a) measures wine acid b) requires a few drops of ju c) measures alcohol in the v d) measures grape sugar			

		8)	<ul> <li>Wine yeast</li> <li>a) is sensitive to sulphur di oxide</li> <li>b) is resistant to sulphur di oxide</li> <li>c) shows enhanced enzyme production in presence of sulphur di oxide</li> <li>d) none of the above</li> </ul>	
		9)	The crushed grapes are known as  a) malt b) must c) wort d) sonti	
		10)	Final alcohol content in wine varies from  a) 6-9% by weight b) 8-13% by weight c) Both (a) and (b) d) 13-15% by weight	
	B)	1) 2) 3) 4) 5)	finition & One sentence answer.  Grape varieties  Define Fermentation.  What is Wine Score Cards?  Define aging processes.  Role of yeast in wine  What is Maceration?	06
Q.2	a) b) c) d) e)	Wi Lis Wi Fa Wi Na Wi En	nat is must clarification?  t of Natural Bio preservatives.  nat is organic wine?  ctors Affecting Aging  ctors Affecting Olfactory Perception.  nat is curing of wine?  me any two metabolites produced in wine.  nat are antifoam agents?  list the carbon sources used in fermentation media.  vantages of Oak Cooperage.	16
Q.3	A)	At 1) 2) 3)	tempt any Two of the following. Classify the wine on the basis of chemical composition. Biochemistry of Alcoholic Fermentation. Write in details on sensory perception of wine.	10
	B)	Wı	ite a new concept in wine production.	06
Q.4	A)	At: 1) 2) 3)	tempt any Two of the following. Write a note on wine Assessment and Sensory Analysis. Describe alcoholic beverage and effect on human health. Importance of automation operation in wine industries.	80
	B)	De	scribe Basic Procedures of Wine Production.	80

### Q.5 Attempt any Two of the following.

- a) Write in detail rejuvenation of Old Wines.
- b) Describe history of wine and wine classification.
- c) Describe factors Affecting Fermentation process.

16

Seat	Sat	D
No.	Set	

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

-	3.00.	(	i opi oneai omp	March/April English	- 2	2025	Lxammadon
			Bus	siness English		EN1601)	
•			ednesday, 30-April To 05:00 PM	-2025			Max. Marks: 40
Instr	ructio		1) All questions a 2) Figures to the			marks.	
Q.1	Cho 1)		the correct alter			-	08
	-,	a) c)		b		Pennsylvania Vladimir	
	2)		was digging	a tunnel under	hi	s sleeping shelf.	
	ĺ	a) c)		b	)	Semyonich Czar	
	3)	Lal			,	to the co	untry should
			Love		,	Care Loyalty	
	4)		Confesses t	hat it was he w	ho	killed the other m	nerchant.
	•	a)	•		,	Aksionov	
		c)	Dmitrich	O	I)	Jailor	
	5)		_			ea that time is	·
		a)			,	Endless	
		c)	Limited	C	1)	Clueless	
	6)		chess gave every				
		a) c)	Respect Reverence	b d	,	Coins Smile	
	7)		nit said to Shaury ration) Rohit told Shau Rohit told Shau Rohit said to Shau	rya that he was rya that she wa naurya, he is he	s h is l er b	ner brother. prother.	o Indirect

## SLR-YD-43

	8)	We must accept the changes the correct adverb) a) Happily c) Sad	b) d)	(Fill in the blanks by choosing  Happy  Prompt	
Q.2	Wri a) b)	te short answers. (Any Four) Why was Aksionov arrested? What are the responsibilities of the Shastriji?	,	·	12
	c) d) e) f)	Comment on the theme of the power what is the central idea of the power what is the central idea of the power comment on the misfortunes of A	em <i>E</i> em (	Endless Time? Ode to Beauty?	
Q.3	Ans a) b)	swer the following question. (An What is the significance of the 21 What are the 21st century life skil	st cel	•	10
Q.4	,	at is the importance of 21st century		skills?	10

Seat	Sat	D
No.	Set	P

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

	March/April - International Busine			
•	Day & Date: Sunday, 18-May-2025  Fime: 03:00 PM To 06:00 PM			
Instructions: necessary	<ol> <li>All questions are compulsory.</li> <li>Draw neat labelled diagrams</li> <li>Figures to the right indicate full</li> <li>Use of log table and calculate</li> </ol>	and gi <sup>,</sup> ıll marl	KS.	
1) \ a c 2) \ a	oose the correct alternative and Which one is not International Instal IMF  b) IBRD  The 21 st member to join the G-2  Shrilanka	stitution b) d) 0 is b)	IDA TRAI Uzbekistan	10
3) \ a	<ul><li>c) Myanmar</li><li>Which one is the source of external</li><li>a) WTO funds</li><li>c) Export Credit</li></ul>	nal fina	World Bank Group	
k a	Foreign exchange andd Foreign o by a) RBI c) FEMA Act	currend b) d)		
i a b	Which one of the following is not tems?  a) Textile and Garments b) Gems and Jewelry c) Oil and Petroleum d) Basmati Rice	amonç	gst India's major export	
Ś	International trade in goods and substitute for all the following exc International Movement of Ca	ept	s in sometimes used as a	

**b)** International Movement of Labor

c) International Movement of Technology
 d) Domestic production of different goods and Services

	7)		nerging Markets includes OECT Country		Brazil, China, Russia, India	
		c)	Korea, Japan and USA	d)	Hungary, Poland, Slovakia	
	8)	a)	here is the headquarters of the New York Geneva		Washington DC Austria	
	9)	a) b) c)	AP stands for System, Application and Produce Software Application & progration Systematic Application Processing	mming mming	)	
	10)		is the first step in the interr License Sales	nationa b) d)	lization procress. Foreign Investment Export	
	1 2 3 4 5	) L ) L ) L ) L	wer the following in one senter ong form GATT? ong form EEC? ong from ASEAN? ong form SAARC? ong form IMF? ong form SAFTA?	ence.		06
Q.2	a) b) c)	De WI WI WI WI	following: (Any Eight) efine International? efine Business? hat is Foreign Trade? hat is Corporation? hat is Tariffs? hat is Organization? hat is Marketing Management? hat is Maintenance?			16
Q.3	A) S 1) 2) 3)	Ex Wı	e the following: (Any Two) cplain the nature of International rite down International Law? rite down Modes of Entry in IB?		ess?	10
Q.3	,		t notes. t Notes On "World Bank"			06

## SLR-YD-44

Q.4	<ul> <li>A) Attempt the following. (Any Two)</li> <li>1) Write down Production Planning?</li> <li>2) Write down Human Resource module?</li> <li>3) Write down Intenational Business Approach?</li> </ul>	08
Q.4	B) What is WTO? Explain Objective and function of WTO?	08
Q.5	<ul> <li>Attempt the following. (Any Two)</li> <li>a) Explain the role of Economic Development?</li> <li>b) Write down procedure of Import/Export?</li> <li>c) Write down advantage of MNCs?</li> </ul>	16

Seat	Set	D
No.	Set	

## B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April - 2025 Organizational Behavior (EN1603)

	Organizational B	enav	/ior (EN1603)	
•	Sunday, 25-May-2025 PM To 05:00 PM			Max. Marks: 80
Instructions:	<ol> <li>All questions are compuls</li> <li>Draw neat labelled diagra</li> <li>Figure to the right indicate</li> <li>Use of log table and calculate</li> </ol>	ams v es ful	l marks.	
<b>1)</b> C a)	oose correct alternative (Months) ommunication begins with Encoding Decoding		Idea Organization channel Selection	10
a)	orces affecting orgnizational People Technology	b)		
a) b) c)	he problem-solving process to Clarification of the situation establishment of alternatives Identification of the difficulty isolation of the cause	S	s with	
a)	ontributions of human relatio Great Depression Hawthorne Studies	b)	Labor Movement	
a)	present context, challenges Employee Expectations Globalization	b)		
a)	manager with good car Communication Experience	n ma b) d)	-	e pleasant.
a)	B is the study of in the Human Employer	b)		
a)	asis of "Collegial Model of Ob Economic Resource Leadership	b)	Power	

	<ul> <li>Which of the following is/are method of Managing stress?</li> <li>a) Job relocation</li> <li>b) Career Counselling</li> <li>c) Recreational Facility</li> <li>d) All of the above</li> </ul>	
	<ul> <li>10) Organizational Behavior is</li> <li>a) A Science</li> <li>b) An Art</li> <li>c) A Science an well as art</li> <li>d) None of these</li> </ul>	
	<ul> <li>a) Define Behavior.</li> <li>b) Define Industries.</li> <li>c) Define Memory.</li> <li>d) Define E-Commerce.</li> <li>e) Define Motivation.</li> <li>f) Define Politics.</li> </ul>	06
Q.2	<ul> <li>Answer the following: (Any Eight)</li> <li>a) Define Web Commerce.</li> <li>b) EDI Stands for.</li> <li>c) What is Stress?</li> <li>d) What is Organization?</li> <li>e) What is Security?</li> <li>f) What is Network?</li> <li>g) What is Power Tactics?</li> <li>h) What is Time Management?</li> <li>i) Define Electronic Cash.</li> <li>j) Definition of personality.</li> </ul>	16
Q.3	<ul> <li>A) Answer the following: (Any Two)</li> <li>a) Write down scope of OB?</li> <li>b) Write down source of power.</li> <li>c) Explaining importance of motivation.</li> </ul>	10
	B) Short Notes On "Work Stress Model".	06
Q.4	<ul> <li>A) Answer the following: (Any Two)</li> <li>a) Maslow Theory of Motivation.</li> <li>b) Write down type of Personality.</li> <li>c) Write down types of political activity.</li> </ul>	08
	B) What is e-Commerce? Write down advantages of e-commerce.	08
Q.5	<ul> <li>Answer the following: (Any Two)</li> <li>a) What are perceptions? Write down perceptions process.</li> <li>b) Explain Individual and Interpersonal behavior.</li> <li>c) Difference between E-Cash vs E-Payment</li> </ul>	16

Seat	Sat	В
No.	Set	

## B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination: March/April - 2025 Techniques in Industrial Chemistry (EN1604)

			March/Ap Techniques in Industri		
•			Monday, 05-May-2025 PM To 06:00 PM		Max. Marks: 80
Insti	ructio	ons:	<ul><li>1) All questions are compulse</li><li>2) Figures to the right indicat</li></ul>	-	narks.
Q.1	A)		lect the correct alternative. In TLC, the stationary phase a) solid c) liquid	b)	de up of gas plasma
		2)	A mixture of o-nitrophenol are by a) crystallization c) chromatography	b)	distillation
		3)	This is not separated by disti a) chloroform and aniline c) milk and water	b)	impurities in seawater
		4)	Fire can be reduced by remo a) oxygen c) heat	b)	fuel any of above
		5)	There are principles a) 12 c) 11	b)	en chemistry. 13 14
		6)		ars, oil	g flammable liquids, combustible ls, oil-based paints, solvents,  B D
		7)	Paper Chromatography is a separate a) simple mixtures c) complex mixtures	separa b) d)	viscous mixtures metals
		8)	Green chemistry is also calle a) sustainable c) organic	b)	chemistry. industrial nuclear

		9)	In which of the following methods are liquid samples injected into the column in gas chromatography?  a) Gas tight syringe b) Micro-syringe c) Rotary sample valve d) All of these	
		10)	Column chromatography is method of separation.  a) biochemical b) chemical c) physical d) both a and b	
	B)	1) 2) 3) 4) 5)	Define thin layer chromatography. Write any one name of zeolite. Which material is used as stationary phase in HPLC? Why porcelain pieces are put into the distillation flask?	06
Q.2	Sol a) b) c) d) e) f) g) h) i)	ve any Eight of the following.  Draw a neat labelled diagram of continuous distillation.  Write any two applications of HPLC.  Enlist different types of fire.  What is mean by vacuum distillation?  Write about solvent front?  What are biocatalytic reactions?  What is the range of microwaves in electromagnetic radiation?  Write the components of soda ash fire extinguishers.  Which technique is used for separation of hydrocarbons in crude oil?  Write factors affecting enzyme activity.		
Q.3	A)	Wr 1) 2) 3)	rite short notes on any two of the following.  Explain the soda acid extinguishers.  Write the applications of GC.  Explain separation of acetone and water by fractional distillation.	10
	B)	Wr	rite short note on principles of green chemistry.	06
Q.4	A)	An 1) 2) 3)	Draw neat labelled diagram of batch distillation.  Write any two examples of microwave assisted reactions.  Explain classification of chromatography technique.	80
	B)		plain the principle and instrumentation of HPLC with labelled agram.	80

### Q.5 Answer of the following (Any Two)

16

- a) Explain the continuous distillation process with neat labelled diagram.
- **b)** Explain Halon-1301 fire extinguisher.
- **c)** What are zeolites? Give their sources. Explain its structure and applications.

Seat	Sat	D
No.	Set	

E	3.Sc	. (E	Marc	nester - VI) (New) (CBCS) Examina h/April - 2025	tion:
-			Tuesday, 06-May-2025 PM To 06:00 PM	<b>Jineering (EN1605-A)</b> Max. M	arks: 80
Inst	ruct	ions	<ul><li>2) All questions are con</li><li>2) Draw neat labelled of</li><li>3) Figures to the right in</li><li>4) Use of log table and</li></ul>	iagrams whenever necessary. ndicate full marks.	
Q.1	A)			native and rewrite the sentences agai clease <i>Eco</i> RI, letter R is used for ase b) strain	n. 10
			c) order of identification	d) genus or species of organi	sm
		2)	Thymidine kinase is a _ a) decarboxyl c) phosphotransferase	enzyme. b) polymerase d) dehydrating	
		3)	facilitates the joining the formation of a phosp a) Polymerase c) Kinase	ng of DNA strands together by catalyzing hodiester bond. b) Deoxynucleotidyl transfera d) Ligase	_
		4)	In the cloning vector pB a) plasmid c) phase	R, letter p stands for b) phage d) phosphate	
		5)	Transformation of DNA a) Calcium phosphate c) Lipofection	by chemical method is achieved using _ b) DEAE-dextran d) all of these	
		6)	Tungsten or gold particle a) helium c) xenon	es in the gene gun are accelerated by _ b) neon d) krypton	
		7)	Polymerase used for PC a) Escherichia coli c) Thermus aquaticus	R is extracted from b) Homo sapiens d) Saccharomyces cerevisiae	
		8)	The samples in Sanger' using a) AGE c) 2-D Gel	b) PFGE d) PAGE	

	9)	Active insulin consists of polypeptide chains. a) 1	
	10)	The genes cryllAb produce toxins against  a) com borer b) nematode c) cotton Bollworm d) protozoa	
	1 2 3 4 5	Answer the following in one sentence.  1) What is Cosmid? 2) What is linker in GE? 3) What is Western blotting? 4) What is edible vaccine? 5) What is DNA microarray? 6) What is rDNA technology?	06
Q.2	a) W E E E E E E E E E E E E E E E E E E	Vrite two names of plasmid vectors. Explain properties of SV40 based expression vector. Vrite in short on Agarose gel electrophoresis. Discuss in short RAPD. Vhat is an antisense molecule? Explain rubber from microbial origin. Vhat is Northern blotting? Vhat is site directed mutagenesis? Vhat is cloning? Vhat is cDNA?	16
Q.3	-	g ,	10
	<b>B)</b> \	Write short note on rDNA vaccines.	06
Q.4	A) 1) 2) 3)	Discuss in short protein engineering.	08
	<b>B)</b> [	Describe in detail SDS-PAGE.	80
Q.5	<ul><li>a) E</li><li>b) E</li></ul>	npt the following. (Any Two) Explain in detail DNA modifying enzymes. Discuss in detail DNA transformation methods. Vrite in detail on cDNA libraries.	16

# SLR-YD-47

Seat No.					Se	t P
Day &	. Da	ite: -	March/April - Narch/April - Narch/April - Techniques in Plant Tissue Tuesday, 06-May-2025 PM To 06:00 PM	2025	5	
Instru	ctic	ons	<ul><li>1) All questions are compulsory.</li><li>2) Draw neat labelled diagrams w</li><li>3) Figures to the right indicate ful</li><li>4) Use of log table and calculator</li></ul>	l marl	ks.	
Q.1	<b>A</b> )		Addition of avoids many of the animal culture media.  a) protein c) vitamin	the co	ontamination problems in carbohydrate	10
		2)	Solid media are a) agar c) suspension	b) d)	broth saline	
		3)	Liquid media are known as a) broth c) agar	b) d)	slant stab	
		4)	<ul> <li>Balanced salt solutions provide the</li> <li>a) water and inorganic ions</li> <li>b) a physiological pH</li> <li>c) maintaining an osmotic pressure</li> <li>d) all of these</li> </ul>		ls	
		5)	<ul> <li>is advantage of using serung</li> <li>a) Source of contamination by v</li> <li>b) Composition varies a lot</li> <li>c) Increases cost of downstream</li> <li>d) Binds and neutralizes toxins</li> </ul>	iruses	s, mycoplasma, prions	
		6)	Disaggregating of cells can be act a) physical disruption b) enzymatic digestion c) treating with chelating agents d) all of the above		ed by	
		7)	Nicotinic acid (B3) is a) growth hormone c) amino acid	b) d)	carbohydrate vitamin	

		8)	Auxins and Cytokinins are  a) antibiotics b) salts c) energy sources d) growth hormones	
		9)	Heat sensitive media are sterilized by  a) hot air oven b) autoclave c) filtration d) microscope	
		10)	The nucleus of the cell was discovered by  a) Robert Hooke b) Aristotle c) Robert Brown d) Matthias Schleiden	
	B)	1) 2) 3) 4) 5)	what is cell? What is subculture? What is protoplast? What is explant? What is hemocytometer? What is somatic cell?	06
Q.2	So a) b) c) d) e) f) g) h) i)	Wh Wh Wh Wh Wh Wh	he following: (Any Eight) nat is incubation room? nat is sterilization? nat is cell synchronization? nat is suspension? nat is protoplast fusion? nat is leaf culture? nat is broth culture? nat is blood plasma? nat is cell separation? nat is cell enumeration?	16
Q.3	A)	<b>So</b> 1) 2) 3)	Dive the following: (Any Two)  Explain in detail animal tissue culture Laboratory design.  Describe in detail cell synchronization in animal tissue culture.  Write in detail on nutritional requirements of explant.	10
	B)	Ex	plain in detail aseptic techniques.	06
Q.4	A)	Att 1) 2) 3)	tempt the following. (Any Two)  Describe in short shoot tip Culture.  Write in brief nutritional requirements of animal cell.  Explain in brief establishment of cell lines.	08
	B)	Wr	rite in detail micropropagation.	08

- Q.5 Attempt the following. (Any Two)a) Explain in detail nutritional requirements of the explants.
  - Describe in detail anther and pollen Culture. b)
  - Write in detail equipment and instruments used in tissue culture c) laboratory.

Seat No.	İ				Set	P		
B.S	B.Sc. (Entrepreneurship) (Semester - VI) (New/Old) (CBCS) Examination:  March/April - 2025  English							
			Business Engl		EN601)			
•		e: Wednesday, 30 0 PM To 05:00 P			Max. Mar	ks: 40		
Instr	uctio	•	ions are compulson to the right indicate	-	narks.			
Q.1	_		t alternatives fron	n the	given options.	08		
	1)	What did the g a) Sourface c) No-face	irls call Robert?	b) d)	Paleface Sweetface			
	2)	What did Askid a) he lost his c) he becam	hair	er drea b) d)	am about Askiono's hair? his hair had become gray he got arrested			
	3)	What are name a) Joss & Ka c) Jade & Ka	ıdy	rom th b) d)	ne story 'Growing up'? Jane & Karli Jenny & Kate			
	4)	Who dwells in a) the anima c) the king	peace of forest in t ls	he po b) d)				
	5)	Who is the nar a) the poet c) the duche	rator of the poem ' ss	My La b) d)	ast duchess'? the emissary the duke			
	6)		nings of beauty me and the moon		ed in the poem 'Ode to Beauty Young trees and streams All of the above	'?		
	7)		ct adverb to fill in th		e but didn't find any evidence. nks) throughout through			
	8)	<ul><li>a) He said th</li><li>b) He said A</li><li>c) He told Ar</li></ul>	is at home." (Converted that Anu was at home numbers is at home. The home is in the home at home is the home is the home is the mome at the mome is th	ne.	o indirect speech)			

# SLR-YD-49

Q.2	Ans a) b) c) d) e) f)	How was Robert and the dog attacked in the story 'Growing Up'? What was the major change in character of Askionov in the prison? What is the tragic story told by the narrator from the poem 'Sita'? How does the duke reveal his role in the death of the duchess? Why is 'Ode to Beauty' considered to be romantic poem? Who do you think are 'our best' that poet refers to in the poem 'Life'?	12
Q.3	Ans a) b)	swer the following questions. (Any One) Explain what is information literacy & its importance? What is media literacy and what is its importance?	10
Q.4	Wh	at are life skills? Explain in detail.	10

Seat No.		Set P					
B.Sc. (	B.Sc. (Entrepreneurship) (Semester - VI) (New/Old) (CBCS) : Examination March/April - 2025 International Business (EN602)						
Day & Date: Sunday, 18-May-2025 Max. Marks: Time: 03:00 PM To 06:00 PM							
Instruc	tions	<ul><li>: 1) All questions are compulsory.</li><li>2) Draw neat labelled diagrams wherever necessary</li><li>3) Figures to the right indicate full marks.</li><li>4) Use of log table and calculator is allowed.</li></ul>					
Q.1 A)		Comparative Cost Trade Theory is given by  a) Adam smith b) David Ricardo c) Heckscher Ohlin d) David miller					
	2)	A tax imposed on certain type of imported goods is  a) A tariff b) A surcharge  c) A goods and service tax d) A quota					
	3)	Balance of payments of a country includes  a) Capital Account b) Current Account c) Official Reserve Account d) All the above					

a) Association of South East Asian Nationsb) Administration of South East Asian Nations

d) Organisation of South East Asian Nation

c) Administration of southern eastern Asian nations

\_\_\_ is a written commitment to pay by importer's bank to

b)

d)

b)

d)

b)

d)

b)

d)

Letter of credit

Bill of sight

Protected

Mumbai

All the above

Washington D.C.

**Customers Union** 

Free Trade Area

**4)** Full form of ASEAN:

exporter's bank.

c) Bill of entry

c) Restricted

a) Geneva

c) Berlin

a) Free

a) Bill of exchange

**6)** Globalization implies \_\_\_\_\_ trade.

7) Headquarter of WTO is in \_\_\_\_

8) NAFTA is an example of \_\_\_\_\_a) Common Market

c) Economic Community

		9)	a) Contract manufacturing b) Licensing c) Franchising d) Turnkey project	
		10)	<ul> <li>Expand SAP</li> <li>a) Systems, Applications and Products in data processing</li> <li>b) Search Analysis Program</li> <li>c) Soft analysis program</li> <li>d) Software Analysis Program</li> </ul>	
	В)	(3) (4) (5) (6)	ve one word/parse/term for the following statement.  Removal or reduction of restrictions or barriers on the free exchange of goods between nations.  The portfolio investment by foreign institutional investors.  A company that owns or controls production in more than one nation when two or more firms come together to create a new business entity that is legally separate and distinct from its parents.  An instrument which establishes evidence on origin of goods imported into any country.  A legal document issued by a carrier to a shipper that details the type, quantity, and destination of the goods being carried.	<b>06</b>
Q.2	1) 2) 3) 4) 5) 6) 7) 8) 9)	W De De De E> De	Iny Eight of the following. If hat is absolute cost advantage? If hat is absolute cost advantage? If hat do you mean by trade policy? If he Globalisation. If he Franchising. If he Franchising. If he Franchising. If he Franchising is a splain Tariff. If he Franchising is a splain Open Account. If he fine MNC? If he fine Free Trade Area. If he form of GATT and WTO.	16
Q.3	A)	Att 1) 2) 3)	tempt any Two of the following. Explain Comparative cost advantage theory. Importance of international business. Advantages of MNCs.	10
	B)		rite Short Note. plain components of balance of payment.	06
Q.4	A)	1) 2) 3)	Write note on Trade Blocs.	08
	B)	De	scribe Import/Export procedure.	08

## Q.5 Attempt any Two of the following.

- 16
- a) Briefly explain modes of entering into international business.
- b) Explain in brief documents used in International trade.
- c) Explain role of IMF and WTO in economic development.

Seat No.		Set	Р		
B.Sc. (Entrepreneurship) (Semester - VI) (New/Old) (CBCS) Examination:  March/April - 2025					

D.0	)C. (L	-1111	pi en		April - 20		1.
•				y, 25-May-2025 06:00 PM		Max. Marks:	80
Insti	ructio	ons:	2) Dr 3) Fig	questions are composite aw neat diagrams and gures to the right indicate of logarithmic table	d give equicate full m		
Q.1	A)	1)	Org a) b)	tiple Choice Questicanization Behavior is An interdisciplinary A humanistic approaction Total system approach.	approach ach		10
		2)		groups are compo ctly to their superiors Formal Command		ficers or executives who report Informal Friendship	
		3)	a) c)	• •	b)	nderstand the things. Learning All of the above	
		4)		result of experience Perception		hange in behavior that occurs  Values  Attitudes	
		5)	leve a) c)	advocated that huels of needs. Follet Alderfer	imans are b) d)	essentially motivated by  Maslow McClelland	
		6)	Mot a) c)	ivation through fear a Negative motivation Wrong motivation	b)	nment is Positive motivation All the above	
		7)			-	es and psycho-physical systems behavior is known as Perception values	

	B)	Expl	ain the factors influencing p	erception	ons.	08
Q.4	A)	1) 2) 3)	mpt Any Two of the follow Explain in short Types of gr Explain sources of stress. Explain purchase Order Pro	roup.	Steps.	08
	B)	Writ	e note on Maslow's hierarch	y of ne	eds.	06
Q.3	A)	Atte 1) 2) 3)	mpt any Two of the follow Explain Types of Learning Explain sources of power. Write note on Herzberg's tv	Organiz		10
Q.2	Solv 1) 2) 3) 4) 5) 6) 7) 8) 9) 10)	Wh Wh De De De De De	Long From of WWW.  y Eight of the following by do people join group? hat is job satisfaction? hat is stress? fine politics. fine motivation. fine perception. fine learning. fine electronic market. fine financial planning. hat is online e-cash?			16
	B)	1) 2) 3) 4) 5)	wer one Sentence How many levels are in Ma Who developed the expects Mention any two examples Long Form of EDL. Long From of HTML.	ancy th	eory?	06
		10)	OTP stands for a) On Time password c) One time processor	b) d)	On Time processing All the above	
		9)	The viruses spread through a) Mails c) Websites		Pen drives and CDs All the above	
		8)	stage. a) Forming c) Performing	g the n b) d)	Storming Adjourning	

## Q.5 Attempt any Two of the Following

- a) What is organizational behavior? Explain nature & scope of organizational behavior.
- **b)** Explain stages in group development.
- **c)** What is personality? Explain in brief Types of personality.

Seat No.			Set	P				
B.Sc	B.Sc. (Entrepreneurship) (Semester - VI) (New/Old) (CBCS) Examination:  March/April - 2025  Genetic Engineering (EN605)							
•		te: Tuesday, 06-May-2025 00 PM To 06:00 PM	Max. Marks	: 80				
Instru	ctior	ons: 1) All questions are compulsory. 2) Figures to the right indicate full marks						
Q.1	A) 1)	Multiple choice questions.  Genomic library can be prepared by  a) PCR technique b) Shotgun method c) colony hybridization d) all of these		10				
	2)	A Method used to insert DNA molecules into the cell by use electrical impulses is known as  a) Biolistic b) Microinjection c) liposome d) Electroporation	ing short					
<ul> <li>3) The enzymes commonly used in genetic engineering</li> <li>a) Ligase and polymerase</li> <li>b) Restriction endonuclease and polymerase</li> <li>c) Restriction endonuclease and ligase</li> <li>d) None of the above</li> </ul>			·					
	4)	<ul> <li>Transgenic plants are having</li> <li>a) No gene</li> <li>b) Genes in transposition</li> <li>c) Genes have no function</li> <li>d) Genes of other organ</li> </ul>						
	5)	<ul> <li>Which of the following bacterium is considered as 'Natural engineering'?</li> <li>a) Agrobacterium</li> <li>b) Agrobacterium radio tumefaciens</li> <li>c) Pseudomonas putida</li> <li>d) Thermos aquatics</li> </ul>						
	6)	Size of the DNA that can be a Lambda phage is  a) 50kb b) 35-53kb c) 40-50kb d) Any Size						

**7)** In SDS PAGE \_\_\_\_\_.

d) All of the above

a) Protein are denatured by the SDS

b) Protein have same charge-to-mass ratio

c) Smaller protein migrate more rapidly through the cell

	8)	Bt Cotton is the a) Cloned plant c) Transgenic plant	b) d)	Hybrid plant Mutated plant		
	9)	DNA sequencing is done by a) Maxam Gilbert method c) Both a & b	 b) d)	Sanger didoxy method None of these		
	10)	Telomeric sequence are found in a) HAC c) YAC	b) d)	BAC PAC		
Q.1	B) 1) 2) 3) 4) 5) 6)	Fill in the blank/Definition/One answer /Give the name /predict Ligation DNA polymerase SDS-PAGE long form Agarose gel electrophoresis Vectors Cosmid			06	
Q.2	Solve a) b) c) d) e) f) g) h) i)	<ul> <li>b) Write note on Synthetic oligonucleotide.</li> <li>c) Explain in brief Electroporation.</li> <li>d) Write note on Liposomes.</li> <li>e) Explain in brief genomic library.</li> <li>f) Write note on p Insulin.</li> <li>g) Explain in brief Annealing.</li> <li>h) Explain in brief DNA microarray.</li> <li>i) Write note on Restriction enzyme.</li> </ul>				
Q.3	<b>A)</b> a) b) c)	Attempt (Any Two) of the follow Type II restriction enzyme in gene Write note on DNA polymerases. Write note on Shotgun method.	_		10	
Q.3	B)	Short note/Solve. Write short note on antisense mo	lecu	le.	06	
Q.4	<b>A)</b> a) b) c)	Attempt (Any Two) of the following. Write Yeast Yip Vector. Sanger's Method of DNA sequencing Microbial synthesis of Rubber.				
Q.4	B)	Describe /Explain /Solve. Basics of PCR technology			08	

## Q.5 A) Attempt (Any Two) of the following.

- a) Describe in detail Restriction modification systems types, action and applications.
- b) Describe in detail Mammalian SV40 based expression vector.
- c) Agarose gel electrophoresis techniques, Applications.

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

			-	March/Apı Techniques in Plant Tis		
-	& Da e: 03:	Max. Marks: 80				
Instr	uctio		2) F	Il questions are compulsory igures to right indicate full raw neat labelled diagrams	mark	
Q.1	A)	<b>Ch</b> 1)	lab a)	e the correct alternative and a second as natural med oratory.  Plasma clot Embryo extract		Serum
		2)	a)	at sensitive media are ster hot air oven filtration	ilized b) d)	autoclave
		3)	a)	lid media are agar suspension	b) d)	broth saline
		4)	a) b) c)	lanced salt solutions provid water and inorganic ions a physiological pH maintaining an osmotic pr all of these		
		5)	a) ੌ	is prepared by inoculatir janism. Primary cell culture Cell lines		II / tissue directly from an  Secondary cell culture  Transformed cell culture
		6)	a) b) c)	saggregating of cells can be physical disruption enzymatic digestion treating with chelating age all of the above		ieved by
		7)		e nucleus of the cell was di Robert Hooke Robert Brown	scovo b) d)	

		8)	a)	otinic acid (B3) is growth hormone amino acid	b) d)	carbohydrate vitamin			
		9)	a)	e plant part used for tissue of tissue explant	cultur b) d)	re is known as callus organ			
	•	10)		is a culture of excised radical tips of aseptically germinated seeds in a liquid medium.					
			,	Root culture Shoot tip culture	b) d)	Leaf culture Anther culture			
	B)	1) 2) 3) 4) 5)	Wh Wh Wh Wh	er in one sentence.  Pat is tissue?  Pat is subculture?  Pat is totipotency?  Pat is explant?  Pat is hemocytometer?  Pat is antibiotics?			06		
Q.2	Solv a) b) c) d) e) f) g) h) i)	ve any eight of the following.  What is incubation room?  What is cell separation?  What is leaf culture?  What is inoculation room?  What is cell synchronization?  What is gametic cell?  What is blood plasma?  What is PGR?  What is cell theory?							
Q.3	A)	<ul> <li>Answer any two of the following.</li> <li>1) Explain in detail animal tissue culture Laboratory design.</li> <li>2) Describe in detail cell Separation techniques.</li> <li>3) Write in detail on nutritional requirements of explant.</li> </ul>							
	B)	Exp	olain	in detail aseptic technique	S.		06		
Q.4	A)	a) b)	De: Wri	er any two of the following scribe in brief root tip culture ite in brief nutritional require plain in brief establishment o	e. emen		08		
	B)	Wri	ite ir	n detail micropropagation.			08		

- Q.5 Attempt any two of the following.a) Describe in detail anther and pollen Culture.
  - Explain media sterilization. b)
  - Write in detail equipment and instruments used in tissue culture c) laboratory.