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No.

**B.Sc. (Entrepreneurship) (Semester – I) (New) (CBCS) Examination:
March/April-2023
ENGLISH (COMPULSORY)
Literary Voyage (EN1101)**

Day & Date: Tuesday, 18-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Multiple choice questions:**08**

- 1) Mahatma Gandhi said, "Within ten miles radius of _____ you will see skin and bone.

a) Gaya	b) Puri
c) Delhi	d) Mumbai
- 2) Payeng's Forest got disclosed, when a herd of wild _____ entered into it accidentally.

a) dogs	b) monkeys
c) elephants	d) boars
- 3) In the city the grandmother of Khushwant Singh kept herself busy with the _____.

a) spinning wheel	b) cows
c) horses	d) neighbours
- 4) Tagore emphasized that a man needs _____ to conquer one's freedom.

a) intolerance	b) patience
c) hatred	d) haste
- 5) Love came to _____ asking for the queen of the flowers.

a) Fantasy	b) Flora
c) Fame	d) Futura
- 6) When the father went to his son's room, the son was _____.

a) playing	b) slumbering
c) dancing	d) painting
- 7) The word 'protect' requires _____ as a suffix to form a meaningful word.

a) -ly	b) -ship
c) -ion	d) -ful
- 8) 'He went to his father's office yesterday.' The underlined word in the sentence is _____.

a) a verb	b) an adjective
c) a pronoun	d) a modal

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

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

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

Fundamental of Economics and Accountancy (Paper – II) (EN1103)

Day & Date: Thursday, 20-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:**
- 1) All questions are compulsory.
 - 2) Draw neat diagrams and give equations wherever necessary.
 - 3) Figures to the right indicate full marks.
 - 4) Use of logarithmic table and calculator is allowed.

Q.1 Multiple choice questions:

08

- 1) Giffen goods are the _____ goods.

a) superior	b) quality
c) prestigious	d) inferior
- 2) A firm under _____ competition has a regular tendency to show excess capacity.

a) oligopoly	b) perfect
c) monopolistic	d) imperfect
- 3) Demand is a function of _____.

a) price	b) firm
c) product	d) cost
- 4) The word macro in macro economics is the study of _____.

a) development	b) income
c) price	d) growth
- 5) Accountancy starts where _____ ends.

a) Journal	b) Trading A/c
c) Balance Sheet	d) Book-Keeping
- 6) The left hand side of an account is termed as _____ side.

a) Debit	b) Basic
c) Credit	d) Main
- 7) On receipt of cheque _____ account is debited.

a) Cash	b) Bank
c) Party	d) Expense
- 8) _____ is a principal book of accounts.

a) Ledger	b) Cash book
c) Journal	d) Pass Book

Q.2 Define the concept any four.

08

- a) Law of demand
- b) Business Economics
- c) Perfect competition
- d) Ledger
- e) Balance Sheet
- f) Nominal A/c Rule

Q.3 Write short notes on any two of the following**08**

- a) Types of Elasticity demand.
- b) Scope of Accounting.
- c) Journalise the following entries.
 - 1) Paid cash into bank ₹ 15000.
 - 2) Paid telephone bill, including telephone rent by cheque ₹ 1200.
 - 3) Cash sales ₹ 3000.

Q.4 Answer any Two of the following.**08**

- a) Features of perfect competition.
- b) Define supply rule in detail.
- c) Match the following Gr. A & Gr. B

Gr. A	Gr. B
1) Furniture	a) Not recorded in book of a/c
2) Capital	b) Book of original entry
3) Journal	c) Personal A/c
4) Trade discount	d) Real A/c

Q.5 Answer any one question.**08**

- a) Explain the nature & scope of Business Economics.
- b) What is mean by Trial Balance? & types of trial balance.

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

Fundamentals of Inorganic Chemistry (Paper - I) (EN1104)

Day & Date: Friday, 21-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams and give equations whenever necessary.
4) Use of logarithmic table and calculator is allowed.

Q.1 Multiple choice questions.**08**

- 1) In qualitative analysis of carbon and hydrogen, the organic compound heated with _____.
 - a) NaCN
 - b) CuO
 - c) KOH
 - d) AgX
- 2) Ethyne polymerization gives _____.
 - a) ethyl benzene
 - b) propyl benzene
 - c) Mesitylene
 - d) Benzene
- 3) Alkene on treated with cold dilute alk. KMnO_4 form _____.
 - a) Diketone
 - b) 2 moles of acid
 - c) Glycol
 - d) none of these
- 4) 1,4 pentadiene is an example of _____.
 - a) isolated diene
 - b) conjugated diene
 - c) cumulated diene
 - d) none of these
- 5) Benzene burns with, _____.
 - a) non sooty flame
 - b) sooty flame
 - c) green color
 - d) none of these
- 6) Aldehyde is formed when the following is hydrolyzed.
 - a) Ethane
 - b) Ethene
 - c) Ethyne
 - d) none of these
- 7) Na- or k- salts of monocarboxylic acid are used in _____ method.
 - a) Kolbe
 - b) Corey-House
 - c) Wurtz
 - d) none of these
- 8) According to Hukel's rule a cyclic planar, conjugated structure will aromatic if it contains _____.
 - a) $(4n) \pi$ electrons
 - b) $(2n + 2) \pi$ electron
 - c) $(4n + 1) \pi$ electron
 - d) $(4n + 2) \pi$ electron

Q.2 Answer any four of the following.**08**

- a) Give the principle of Lassaigne's test.
- b) Give the method of preparation of butadiene.
- c) Write the hydration reaction of isobutene.
- d) State and explain Huckel's rule.
- e) How mesitylene is prepared from propyne?
- f) How will you prepare ethane from Kolbe's reaction.

- Q.3 Write short notes on any two of the following.** **08**
- a) Detection of carbon and hydrogen in an organic compound
 - b) Acidity of alkynes
 - c) Corey-House reaction
 - d) Electrophilic reactions of alkene
- Q.4 Answer any Two of the following.** **08**
- a) In estimation of sulphur by Carius method 5.6×10^{-4} kg of an organic compound gave 6.17×10^{-4} kg of barium Sulphate. Find the percentage of sulphur in the compound.
 - b) Explain the classification of dienes.
 - c) What are the cycloalkanes? Explain how cyclopentanone is formed from Ca-salt of adipic acid.
- Q.5 Answer any one of the following.** **08**
- a) What is meant by dehydrohalogenation? Explain E1 and E2 mechanism for dehydrohalogenation of lower alkyl halides.
 - b) Explain in detail sulphonation of benzene with example.

- Q.3 Write short notes on any two.** **08**
- a) Classification of dienes.
 - b) Huckel's rule for naphthalene & anthracene.
 - c) Determination of molecular weight by titration method.
- Q.4 Answer any two of the following** **08**
- a) Explain acidity of alkynes.
 - b) Estimate Sulphur by carious method.
 - c) Explain sulphonaction of benzene.
- Q.5 Answer any one of the following.** **08**
- a) Give two methods for preparation of alkane. What is the action of
 - i) H_2/Ni
 - ii) $H Br$ cyclopropane
 - b) How will you estimate halogen from organic compound by carious method?
 1.85×10^{-4} kg of organic compound when treated with carious method gave 3.20×10^{-4} kg of AgBr calculate % of bromine in organic compound. .

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

Fundamentals of Microbiology (Paper - I) (EN1106)

Day & Date: Sunday, 23-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagrams wherever necessary.

Q.1 Choose the correct alternative and rewrite the sentences again. 08

- 1) First microscope was invented by _____.
a) Alexander Fleming b) Francesco Redi
c) Martinus Beijerinck d) Antonie van Leeuwenhoek
- 2) The first vaccines for rabies and anthrax were invented by _____.
a) Alexander Fleming b) Sergei Winogradsky
c) Louis Pasteur d) Paul Ehrlich
- 3) In the prokaryotes out of the following _____.
a) Endoplasmic reticulum b) Ribosome
c) Cytoplasm d) cell membrane
- 4) _____ is an acellular microorganism.
a) Alga b) Virus
c) Fungus d) Bacteria
- 5) Sodium taurocholate is used in _____.
a) Wilson and Blair Medium b) Nutrient broth
c) Potato Dextrose agar d) MacConkeys agar
- 6) _____ growth pattern microorganisms mostly remain in log phase.
a) Continuous b) Synchronous
c) Diauxic d) solid state
- 7) Citrate utilization by the microbe is observed in _____ test.
a) Urea hydrolysis b) Gelatin liquification
c) IMViC d) Glucose
- 8) In the bacterial cell counting method named 'SPC', 'P' stands for _____.
a) Plate b) Power
c) Plaque d) Point

Q.2 Answer any four of the following. 08

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

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

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

- Q.3 Write short notes on any two of the following.** **08**
- a) Define and explain General characteristics of cancer.
 - b) Discuss structure and functions of Nucleus.
 - c) Write a note on Fluid Mosaic Model.
- Q.4 Answer any Two of the following.** **08**
- a) Explain Mitosis in detail.
 - b) Write a note on Structure and function of cell membrane.
 - c) Explain Structure and function of Endoplasmic Reticulum.
- Q.5 Answer any one of the following.** **08**
- a) Write a detailed note on Meiosis.
 - b) Discuss in details about Mitochondria with its structure and functions.

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

Animal and Plant Physiology (Paper – II) (EN1109)

Day & Date: Wednesday, 26-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:** 1) All questions are compulsory.
2) Draw neat diagrams and give equations wherever necessary
3) Figures to the right indicate full marks.
4) Use of logarithmic table and calculator is allowed.

Q.1 Choose the correct alternative from the given options.

08

- 1) _____ carries deoxygenated blood to the lungs from the right ventricle.
 - a) Aorta
 - b) Vena cava
 - c) Pulmonary Artery
 - d) Pulmonary vein
- 2) Which of the following enzyme in the human body start the digestion of proteins?
 - a) Trypsin
 - b) Lactase
 - c) Amylase
 - d) Pepsin
- 3) Which of the following is an Endocrine gland in the human body?
 - a) Salivary gland
 - b) Digestive gland
 - c) Pituitary gland
 - d) Sweat gland
- 4) In which part of the respiratory system, gaseous exchange takes place?
 - a) Alveoli
 - b) Larynx
 - c) Pharynx
 - d) Trachea
- 5) How many ATP is required for the synthesis of 1 molecule of glucose?
 - a) 19
 - b) 18
 - c) 24
 - d) 12
- 6) Which of the following bacteria reduce nitrate in soil into nitrogen (Denitrification bacteria)?
 - a) Nitrobacter
 - b) Thiobacillus
 - c) Nitrococcus
 - d) Nitrosomonas
- 7) _____ is a gaseous plant hormone
 - a) Ethylene
 - b) ABA
 - c) NAA
 - d) Cytokinin
- 8) In which permanent tissue nucleus is absent _____.
 - a) Parenchyma
 - b) Collenchyma
 - c) Sclerenchyma
 - d) All of the Above

Q.2 Answer any four of the following

08

- a) Write plasma protein role
- b) Define Nervous co-ordination
- c) What is Hematopoiesis
- d) Draw Primary structure of shoot
- e) Define Osmosis
- f) What is the role of Gibberellins

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

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**B.Sc. (Entrepreneurship) (Semester – I) (Old) (CBCS) Examination:
March/April-2023
ENGLISH (COMPULSORY)
Literary Voyage (EN101 / EN20101)**

Day & Date: Tuesday, 18-07-2023
Time: 09:00 AM To 12:00 PM

Max. Marks: 80

Instructions: 1) All questions are compulsory.
2) Figure to right indicate full marks.

Q.1 A) Choose the correct alternatives from the given options. 10

- 1) What percentage of the population in India was poverty stricken at the time of the essay?
 - a) one - third
 - b) one - fourth
 - c) one - tenth
 - d) one - sixth
- 2) What is the name of the river island where Payeng began his work?
 - a) Miling
 - b) Mishing
 - c) Malang
 - d) None of these
- 3) The school was attached to _____.
 - a) a hospital and the nurses taught them
 - b) a public library and the librarian taught them
 - c) a bigger school and the teachers there taught them
 - d) a temple and the priest of the temple taught them
- 4) The poet is in _____ state of mind when he wrote this poem "Let Me Not pray to be sheltered from Dangers"
 - a) a doubtful
 - b) a horrid
 - c) a dangerous
 - d) a confident
- 5) The conflict for the honour of _____ between rose and lily.
 - a) as the king of flowers
 - b) the queen of nature
 - c) the queen of flowers
 - d) the stateliest flower
- 6) The boy in the poem "The Toys" is _____.
 - a) the speaker of the poem
 - b) a motherless child
 - c) on adamant child
 - d) a naughty little fellow
- 7) The last component of any successful communication is _____.
 - a) Receiving
 - b) Decoding
 - c) Acknowledging
 - d) Feedback
- 8) Which of the following is a communication channel?
 - a) Mobile technology
 - b) Zoom conferencing
 - c) Courier service
 - d) All the above
- 9) Please wait _____ me _____ the bus stop.
(Use appropriate preposition to complete the sentence)
 - a) for, in
 - b) for, at
 - c) for, with
 - d) at, for

- 10) Green team was _____ (numbered) by Blue team [use suitable prefixes with the words]
- | | |
|----------------|----------------------|
| a) unnumbered | b) out numbered |
| c) disnumbered | d) none of the Above |

B) Answer the following questions in one sentence. 06

- 1) What is the relation between economics and religion in the essay 'The Birth of Khadi'?
- 2) In which year, Jadav Payeng got the country's highest civilian award 'Padma shri'?
- 3) What did the grandmother desire to do on her deathbed?
- 4) In which year Tagore's ground breaking work 'Gitanjali' was published?
- 5) Who sang praises for the flowers in the poem 'The Lotus'?
- 6) What kind of coins did the father discover?

Q.2 Answer the following questions in brief 30-40 words. (8 out of 12) 16

- 1) What is the importance of khadi in the context of the freedom struggle?
- 2) How is environmental conservation crucial for the future?
- 3) Draw, a character sketch of 'grandmother' in the essay 'The portrait of a Lady'?
- 4) Discuss the poet's state of mind in the poem. 'Let Me Not pray to be sheltered from Dangers'?
- 5) Write down the summary of poem "The Lotus".
- 6) What is the significance of the toys in the poem?
- 7) Explain Gandhi's talk on religion.
- 8) Draw a character sketch of Jadav Payeng and his grand work.
- 9) What is the significance of sparrows in the story "The Portrait of a Lady"?
- 10) Write a note on the principles of effective communication.
- 11) What is communication? Explain.
- 12) Explain the soft skill 'Intrapersonal skill'

Q.3 A) Write down the answer of any two of the following. 10

- 1) How is untouchability related to the essay "The Birth of Khadi"?
- 2) What were some of the problems faced by Jadav?
- 3) What is the significance of the sparrows?

B) Write short notes 06

Write down the summary 'The Toys'.

Q.4 A) Write down the answers of any two of the following. 08

- 1) What is the receiver's role in the process of communication.
- 2) What are the barriers of communication breakdown?
- 3) Explain the concept of 'Intrapersonal skills'.

B) Prepare a narrative essay on your first day experience of college. 08

Q.5 Write down the answers of any two of the following. 16

- a) Prepare a descriptive essay on a Local Park.
- b) How would you improve your communication and make it effective?
- c) What is 'message' in a communication process?

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

ENTREPRENEURSHIP (Paper – I)

Entrepreneurship and the World of Business (EN102)

Day & Date: Tuesday, 19-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams and give wherever necessary.
4) Use of logarithmic table and calculator is allowed.

Q.1 Select the correct alternatives from the following and rewrite the sentence. 08

- 1) Entrepreneurship can best be described as _____.
 - a) Process that requires setting up a business
 - b) Having a strong vision
 - c) Taking a significant risk in a business context
 - d) A process involving innovation, new products or services, and value creation.

- 2) Project management is ideally suited for a business environment requiring all of the following except _____.
 - a) Flexibility
 - b) Speed
 - c) Innovation
 - d) Repeatability

- 3) Today, many companies are using managerial techniques that are designed to encourage _____.
 - a) Ethical behaviour
 - b) legal compliances
 - c) increasing profits
 - d) shareholders value

- 4) Which could provide an individual with the motivation to start a new business venture _____.
 - a) The financial rewards
 - b) A desire to be independent
 - c) Risk taking
 - d) All the above.

- 5) _____ is the systematic development of a project idea for the eventual purpose of arriving at an investment decision.
 - a) Project identification
 - b) Project formulation
 - c) Project feasibility
 - d) Project evaluation

- 6) Decisions taken by an entrepreneur on behalf of his enterprise are known as _____.
 - a) Organizational decisions
 - b) Personal decisions
 - c) Routine decisions
 - d) Strategic decisions

- 7) A valid definition of a business purpose is to _____.
 - a) Create a customer
 - b) Maximize profits
 - c) Serve the society
 - d) Increase the wealth of the firm

- 8) Entrepreneurial development is the key to achieve all-round _____ through acceleration of industrial and entrepreneurial activities
 - a) Economic development
 - b) Increase in profits
 - c) Shareholders value
 - d) Business development

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

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

ENTREPRENEURSHIP (Paper – II)

Economics for manager and managerial accounting (EN103)

Day & Date: Thursday, 20-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:**
- 1) All questions are compulsory.
 - 2) Draw neat diagrams and give equations wherever necessary.
 - 3) Figures to the right indicate full marks.
 - 4) Use of logarithmic table and calculator is allowed.

Q.1 Multiple choice questions:

08

- 1) Human wants are _____.

a) Unsatisfied	b) Unlimited
c) Expected	d) Limited
- 2) Economic resources are _____.

a) Land	b) Labour
c) Capital	d) All the above
- 3) Homogeneous product is the feature of _____ market.

a) Perfect competition	b) Oligopoly
c) Monopolistic competition	d) none of these
- 4) A market with few sellers is known as _____ market.

a) Oligopoly	b) Monopoly
c) Duopoly	d) Perfect competition
- 5) A commodity in which a trader deals is known as _____.

a) Property	b) Goods
c) Assets	d) Investment
- 6) According to _____ concept, business and owner of the business is separate from each other.

a) Going concern	b) Materiality
c) Business entity	d) Dual aspect
- 7) The process of recording the transactions in journal is called as _____.

a) Posting	b) Casting
c) Journalising	d) An entry
- 8) Capital is shown in Balance sheet _____ side.

a) Credit	b) Debit
c) Asset	d) Liabilities

Q.2 Answer any four of the following.

08

- a) Define Business Economics.
- b) Define Demand.
- c) Define Market.
- d) Define Debtor.
- e) Define Capital.
- f) Define Assets.

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

08

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

Q.4 Answer any Two of the following.

08

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

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

Note: Closing Stock was Rs. 8,000

Q.5 Answer any one of the following

08

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

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

- 5) What are the similarities between atomic orbitals and molecular orbitals?
- 6) Name the source of water pollutant

Q.3 Write short notes on any two of the following. 08

- 1) LCAO principle
- 2) COD and BOD of water
- 3) Types of air pollutants

Q.4 Answer any Two of the following. 08

- 1) Draw the Mo diagram of H_2 molecule, comment on stability and magnetic property of hydrogen molecule
- 2) Discuss the health effects of carbon monoxide.
- 3) Distinguish between bonding molecular orbitals and antibonding molecular orbitals.

Q.5 Answer any one of the following. 08

- a) Explain the formation of $BeCl_2$ on the basis of hybridization.
- b) Explain the crystal structure of NaCl with respect to unit cell, coordination number and stoichiometry.

- Q.3 Write short notes on any two of following. 08**
- a) Corey- House reaction for preparation of alkane.
 - b) Nitration of benzene.
 - c) Detection of elements in organic compound by sodium fusion test.
- Q.4 Answer any two of following. 08**
- a) Give the classification of dienes.
 - b) Give any four qualities of good dye.
 - c) Give classification of drugs on the basis of therapeutical action.
- Q.5 Answer any one of the following. 08**
- a) Explain acidity of acetylene. What is the action of HBr, H_2/Ni H_2O/H_2SO_4 on acetylene?
 - b) How will you estimate sulphur by carius method. 5.15×10^{-4} kg of organic compound gave 6.3×10^{-4} kg of Ba^{SO_4} in carius method calculate % of sulphur in compound.

Seat
No.

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

**INDUSTRIAL MICROBIOLOGY – I
Fundamentals of Microbiology (EN106)**

Day & Date: Sunday, 23-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw a Neat labeled diagrams wherever necessary.

Q.1 Choose the correct alternative and rewrite the sentences again. 08

- 1) The aeration for the growth of microorganism is provided in _____ type of fermentation process.
 - a) Submerged
 - b) Surface
 - c) Liquid
 - d) Solid
- 2) Among the following substances _____ is not a carbon source.
 - a) Corn Molasses
 - b) Yeast extract
 - c) Black strap Molasses
 - d) Beet Molasses
- 3) The homogenous distribution of nutrient and uniform mixing of microorganisms in the fermenter is carried out by _____.
 - a) Sparger
 - b) Baffles
 - c) Impeller
 - d) Antifoam agent
- 4) The small scale bioreactor have volume of _____ liters.
 - a) 1-10
 - b) 5-7
 - c) 7- 12
 - d) 1-20
- 5) The increase in the scale of fermentation by increasing volume from small volume to large volume is called as _____.
 - a) Scale up
 - b) Scale down
 - c) Scale line
 - d) Scale bottom
- 6) The insoluble particles from liquid media are separated and heat labile fermentation media sterilized by _____.
 - a) Extraction
 - b) filtration
 - c) Drying
 - d) Autoclaving
- 7) The sulphite waste liquor is obtained from _____ industry.
 - a) Textile
 - b) Liquor
 - c) Paper and pulp
 - d) Leather
- 8) _____ is a cryoprotective agent used in the cryopreservation of industrially important microbes.
 - a) 10% glycerol
 - b) propylene
 - c) Paraffin wax
 - d) Ascorbic acid

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

Seat No.	
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**B.Sc. (Entrepreneurship) (Semester - I) (Old) (CBCS) Examination:
March/April-2023**

**INDUSTRIAL MICROBIOLOGY - I
Basic Techniques in Microbiology (EN107)**

Day & Date: Monday, 24-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Draw neat diagrams wherever necessary.
3) Figures to the right indicate full marks.

Q.1 Choose the correct alternative (MCQ)

08

- 1) _____ acts as source of light in compound microscope.
 - a) Eye piece
 - b) Condenser
 - c) Objective lens
 - d) Mirror
- 2) _____ is acting as source of Carbon and Nitrogen in culture media.
 - a) Peptone
 - b) Agar agar
 - c) NaCl
 - d) HCl
- 3) McIntosh jar is used for cultivation of _____.
 - a) Fungi
 - b) Viruses
 - c) Anaerobic bacteria
 - d) Actinomycetes
- 4) _____ acts as primary stain in Gram's staining.
 - a) Basic fuchsin
 - b) Crystal Violet
 - c) Alcohol
 - d) Iodine
- 5) Peptone water or Tryptone water is used for _____ test.
 - a) Indol
 - b) Methyl Red
 - c) Voges Proskauer
 - d) Citrate utilization
- 6) Viruses are observed under _____ microscope.
 - a) Compound
 - b) Phase contrast
 - c) Electron
 - d) Bright field
- 7) MacConkey's Agar is selective for cultivation of _____.
 - a) Coliforms
 - b) Bacillus
 - c) S. aureus
 - d) Mycobacterium
- 8) _____ is an example of basic stain.
 - a) Eosin
 - b) Nigrosine
 - c) Congo Red
 - d) Crystal Violet

Q.2 Answer any four of the following.

08

- a) Define synthetic media.
- b) Define magnifying power of lens.
- c) What is DMC?
- d) What is use of fluorescent microscope?
- e) What is Pure Culture?
- f) Which medium is used for starch hydrolysis test?

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

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

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

Seat No.	
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**B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination:
March/April-2023
ENGLISH (Comp.)
Communication Skill (EN1201)**

Day & Date: Monday, 19-06-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Choose the correct alternative from the given options. 08

- 1) Who according to the author has only one year of schooling?
 - a) John Rockefeller
 - b) Jay Gould
 - c) B. Russell
 - d) Sir Henry
- 2) Rabindranath Tagore won the Nobel Prize for Literature for his book Gitanjali in _____.
 - a) 1911
 - b) 1912
 - c) 1913
 - d) 1914
- 3) In the age of Monarchy, who gets manipulated to achieve their own personal interests?
 - a) The People
 - b) The Ministers
 - c) The Countries
 - d) The King
- 4) Who has lynched the lakes?
 - a) The poet
 - b) Factories
 - c) Vehicles
 - d) Humans
- 5) How old is Pope believed to be when he wrote 'Ode on Solitude'?
 - a) 11
 - b) 13
 - c) 12
 - d) 14
- 6) What does the poet wish to hear from the lover in the poem – 'Remember'?
 - a) Marriage plans
 - b) His work
 - c) His family
 - d) Future plans
- 7) Choose the correct synonyms for the word - Dark.
 - a) Dirty
 - b) Light
 - c) Gloomy
 - d) Thought
- 8) Use past tense form in the following sentence.
We _____ (go) to Mumbai last year.
 - a) gone
 - b) was go
 - c) went
 - d) was going

- Q.2 Write the answers in short. (Any Four) 12**
- a) What opinion does the author have of the education system of his time?
 - b) What is the true sense of freedom?
 - c) Discuss the theme of the poem – ‘Our Earth Will Not Die’ in your words.
 - d) Why is the poet giving so much emphasis on solitude in the poem and what does it mean to him?
 - e) Discuss the tone of compassion used by the poet in the poem - Remember?
 - f) What kind of people can achieve the true essence of freedom?
- Q.3 Answer the following questions. (Any One) 10**
- a) Write a letter to your father requesting him to send 5000/- as your class trip is going on to visit South India. Mention the details of four tour and places to visit.
 - b) Write a formal letter to your college librarian as you lost your library card. Request him also to issue a duplicate library card to you. Mention all details of yourself like Name, Class, Roll No and how you lost the card.
- Q.4 What is interpersonal intelligence? Write a detailed note on interpersonal intelligence and how to improve them. 10**

Q.2 Answer any four of the following:

08

- a) E-Marketing
- b) Internal Environment
- c) Define Segmentation.
- d) Define Marketing Services
- e) Define Ratio
- f) Define Working Capital

Q.3 Answer any two of the following.

08

- a) Define Responsibility Accounting.
- b) Explain need of working capital.
- c) Define concept of financial analysis.

Q.4 Answer any two of the following.

08

- a) Calculate working capital if:

Cash	52000/-	Creditors	94000/-
Bank Bal	152000/-	Bill Payable	42000/-
Debtors	138000/-	O/S Expenses	44000/-
Stock	50000/-	Bank OD	25000/-

- b) Explain process of Marketing Research.
- c) State the Problems and tools in e-marketing.

Q.5 Answer any one of the following.

08

- a) Explain the criteria for Market segmentation and state benefit of market segmentation.
- b) Solve the ratios from the data given below.
 Capital -422000, Land -110000, Creditors -44500, Machinery -240000,
 Bills payable- 8500, Stock -88000, Os. Exp.- 1500, Cash -18600,
 Bank o/d -4500, Bank bal- 24400, Op. Stock-150000, Sales -800000,
 Purchases -250000, Closing stock -200000, Wages -100000,
 Gross profit -500000, Administration exp -80000, Selling exp- 40000,
 Salary -140000, Net Profit- 240000.

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

**ENTREPRENEURSHIP SCIENCE (Paper – IV)
Cost Accounting and Project Management (EN1203)**

Day & Date: Wednesday, 21-06-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Draw neat diagrams and give equations wherever necessary.
3) Figures to the right indicate full marks.
4) Use of logarithmic table and Calculator is allowed.
(At. Wts. H=1, C=12, O=16, N=14, Na=23, Cl=35.5)

Q.1 Choose the correct alternative from the option.

08

- 1) The main objective of cost accounting is to provide information to the management for _____.
a) Planning
b) Policy Making
c) Decision Making
d) None of these
- 2) Bin card is also known as _____.
a) Storage Ledger
b) Stock Card
c) Material Bill
d) None of these
- 3) _____ is a person responsible for setting up a Business.
a) Entrepreneur
b) Businessman
c) Manager
d) Planner
- 4) Which are the following industries are to be given compulsory licensing?
a) Alcohol
b) Tobacco
c) Drugs & pharmaceutical
d) All of these
- 5) A program is usually a group of _____.
a) Plans
b) People & Work
c) Related Project
d) unrelated Project
- 6) Resource refers to _____.
a) Manpower
b) Machinery
c) Material
d) All of these
- 7) The cost of structure of proposed project must consider _____.
a) Cost of material input
b) Labour Cost
c) Factory Overheads
d) All of these
- 8) SSI stands for _____.
a) Side Scale Industry
b) Small Scale Industry
c) Server Scale Industry
d) Secure Scale Industry

Q.2 Answer any four of the following.

08

- a) Define Cost.
- b) Define Accounting.
- c) Define Project.
- d) Define Management.
- e) Define Report.
- f) Define Life Cycle.

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

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

**INDUSTRIAL CHEMISTRY (Paper – III)
Fundamentals of Physical Chemistry (EN1204)**

Day & Date: Thursday, 22-06-2023

Max. Marks: 40

Time: 12:00 PM To 02:00 PM

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

Q.1 Choose the correct alternatives from the options.

08

- 1) Reaction which are bimolecular yet following _____ order kinetics are called pseudo unimolecular reaction.

a) Zero	b) First
c) Second	d) Third
- 2) The reciprocal of viscosity is called _____.

a) surface tension	b) fractional resistance
c) Fluidity	d) none of these
- 3) Joule- Thomson expansion of an ideal gas produces _____.

a) Heating	b) Cooling
c) no change in temperature	d) none of these
- 4) The number of moles of solute in one litre of solution is called as _____.

a) Normality	b) Molality
c) mole fraction	d) Molarity
- 5) Rate of reaction _____.

a) increases with increase in temperature	b) decrease with increase in temperature
c) is independent on temperature	d) is independent of concentration
- 6) The temperature at which a real gas obeys the ideal gas behaviour over a wide range of pressure is _____.

a) critical temperature	b) Boyle's temperature
c) reduced temperature	d) inversion temperature
- 7) Molecularity never be _____.

a) Zero	b) Negative
c) Infinity	d) all of these
- 8) The unit of first order rate constant are _____.

a) mole dm ⁻³ s ⁻¹	b) dm ³ mole ⁻¹ s ⁻¹
c) s ⁻¹	d) s ⁺¹

- Q.2 Answers any four of the following. 08**
- a) What is mean by rate of reaction?
 - b) Write Van der Waals equation.
 - c) Mention Macleod's formula for parachor.
 - d) Define molecular weight and equivalent weight.
 - e) What are the advantages of stalagmometer or drop-pipette?
 - f) Define second order reaction with example.
- Q.3 Write short notes on any two of the following. 08**
- a) Factors affecting the rate of reaction
 - b) Andrew's isotherm of CO₂
 - c) Mole fraction and atomic fraction
- Q.4 Answers any two of the following. 08**
- a) Explain in detail Joule Thomson effect.
 - b) Explain zero order reaction with its example.
 - c) Explain molarity and molality with example.
- Q.5 Answers any one of the following. 08**
- a) Explain Drop - Weight method for determination of surface tension.
 - b) Determine the rate constant for first order reaction. Write any two characteristics of first order reaction.

Seat No.	
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**B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS)
Examination: March/April-2023
INDUSTRIAL CHEMISTRY (Paper – IV)
Fundamentals of Analytical Chemistry (EN1205)**

Day & Date: Friday, 23-06-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Draw neat labeled diagrams wherever necessary.
3) Figures to the right indicate full marks.

Q.1 Choose the correct alternative from the option.

08

- 1) The enthalpy can be defined as _____.

a) $H = E + PV$	b) $H = E - PV$
c) $H = E - TS$	d) $H = E + TS$
- 2) Which of the following compound can be used as an antacid?

a) NaOH	b) NaHCO ₃
c) Al(OH) ₃	d) Na ₂ SO ₄
- 3) Efficiency of an engine is always _____.

a) Greater than unity	b) Less than unity
c) Equal to unity	d) Always zero
- 4) Which of the following substance can be used as an anti-knocking agent?

a) Tetra ethyl lead	b) Lead tetrachloride
c) Lead nitrate	d) Lead acetate
- 5) Octane number 100 has been assigned to _____.

a) n-heptane	b) iso-octane
c) 2,2-dimethyl pentane	d) neohexane
- 6) Which of the following polymers are the example of addition polymers?

a) Polyethylene	b) PVC
c) Polystyrene	d) all of these
- 7) Bakelite is an example of _____ polymers.

a) Condensation	b) Addition
c) Cross linked	d) All the above
- 8) The relation between Cp and Cv is correctly given as _____.

a) $C_p + C_v = R$	b) $C_p - C_v = R$
c) $C_p/C_v = R$	d) $C_p \times C_v = R$

Q.2 Answer any four of the following.

08

- a) What is refining of petroleum?
- b) Mention any two antacids.
- c) Define molar heat capacity.
- d) What are the major adulterations in milk?
- e) Define

i) Octane number	ii) Flash point
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- f) Give the statement of second law of thermodynamics.

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

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

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

INDUSTRIAL MICROBIOLOGY (Paper-IV)

Basics techniques in Industrial Microbiology (EN1207)

Day & Date: Sunday, 02-07-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams wherever necessary.

Q.1 Choose the correct alternatives from the options.

08

- 1) _____ is down stream processing.

a) Media Screening	b) Media formulation
c) Product recovery	d) Inoculum preparation
- 2) In fermentation industry maintenance cost varies from _____% of the capital cost.

a) 40-80	b) 4-8
c) 50-60	d) 1-2
- 3) _____ is not the physical method for cell rapturing.

a) Enzymatic	b) Milling
c) Homogenization	d) Ultrasonication
- 4) Pyrogen testing is regarding to testing increased _____ of the body.

a) Blood pressure	b) Cholesterol
c) Thyroid	d) Temperature
- 5) _____ is primary treatment of effluent from fermentation industry.

a) Activated sludge	b) Trickling filters
c) Oxidation ponds	d) Sedimentation
- 6) Initial use of computer in fermentation technology was done by _____.

a) Bill Gates	b) Yamashita and Murao
c) Kinoshita et. al	d) Louis Pasteur
- 7) The charged molecules can be separated by _____ chromatography.

a) Ion exchange	b) Affinity
c) Adsorption	d) Thin layer
- 8) In BOD test of effluent, incubation is carried out at _____ °C temperature.

a) 37	b) 10
c) 45	d) 20

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

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**B.Sc. (Entrepreneurship) (Semester - II) (New) (CBCS) Examination:
March/April-2023
INDUSTRIAL BIOTECHNOLOGY (Paper - III)
Basics of Biomolecules (EN1208)**

Day & Date: Monday, 03-07-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Rewrite the following sentences by choosing the correct alternative. 08

- 1) Allosteric enzymes are _____.
 - a) smaller than simple enzymes
 - b) smaller than simple enzymes but not complex
 - c) larger than simple enzymes
 - d) larger and more complex than simple enzyme
- 2) _____ is the general formula of Carbohydrates.

a) $(C_6H_2O)_n$	b) $(CH_2O)_n$
c) $(C_4H_2O)_n$	d) $(C_2H_2O)_n COOH$
- 3) _____ is an oligosaccharide linked to protein.

a) Glycolipid	b) Ganglioside
c) Galactoside	d) Glycoprotein
- 4) Amino acids with aromatic side chains are _____.
 - a) phenylalanine, tryptophan, tyrosine
 - b) phenylalanine, tryptophan, serine
 - c) tryptophan, asparagine, tyrosine
 - d) tryptophan, threonine, tyrosine
- 5) ATP is a _____.

a) nucleic acid	b) vitamin
c) nucleoside	d) nucleotide
- 6) _____ vitamin helps in blood clotting.

a) Vitamin C	b) Vitamin D
c) Vitamin A	d) Vitamin K
- 7) _____ is a fat-soluble vitamin.

a) Vitamin B	b) Vitamin B ₁₂
c) Vitamin K	d) Vitamin C
- 8) The bond between amino is called _____.

a) Peptide bond	b) Hydrogen bond
c) Ionic bond	d) Acidic bond

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

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

SLR-QD-28

8) Fill in the blanks with the past tense forms of the verbs given within the brackets.

'The Mechanic _____ (repair) the car.

- a) will repaired
- b) was repaired
- c) repaired
- d) repair

9) The outline of a presentation includes _____.

- a) acknowledgment
- b) probable questions
- c) an introduction, body and conclusion
- d) None of the above

10) P.P.T Presentation means _____

- a) Power Point Presentation
- b) Power Presentation
- c) Point Power Presentation
- d) None of the above

B) Answer the following questions in one word/one sentence. 06

- 1) Which sort of person asks troublesome questions in the essay 'Of Discourse'?
- 2) What benefit could be derived from Struggle of youth?
- 3) What kind of people can achieve the true essence of freedom?
- 4) What is described as septic daggers?
- 5) Which literary era did Alexander Pope write it?
- 6) What does the poet wish to hear from the lover?

Q.2 Answer the following questions in brief. (Eight out of Twelve) 16

- 1) What is author's purpose in discussing discourse?
- 2) What is the relation between education and virtue?
- 3) What kind of people can achieve the true essence of freedom?
- 4) What opinion does the author present to the people in India of that time regarding freedom?
- 5) What are the common factors among men of eminence?
- 6) What is the author's purpose in discussing discourse?
- 7) Discuss and write the theme of the poem "Our Earth Will Not Die"?
- 8) Write down the summary of the poem "Ode on Solitude".
- 9) Discuss the tone of compassion used by the poet in the poem "Remember".
- 10) Write down the process of paneer in milk factory.
- 11) Prepare a presentation on your favourite social worker.
- 12) Write down the importance of the soft skill "Interpersonal intelligence".

SLR-QD-28

- Q.3 A) Write down the answers of any two briefly. 10**
- 1) Describing the reaching process of Pune to Mahabaleshwar by car.
 - 2) Define and explain the use of power point presentation in today's advanced digital learning school / college.
 - 3) Explain the difference between formal letter and informal letter.
- B) Prepare a presentation on your own college and its facilities. 06**
- Q.4 A) Write down the following answers only any two briefly. 12**
- 1) Read the following advertisement and write a job application letters.

MATOSHREE UMABAI ENGLISH MEDIUM SCHOOL
Wanted Teacher
Qualification - M.A. B.Ed
Experience - Min 1 year
Interested candidates send CV and application at
Indiaumabaischool@gmail.com.
 - 3) Explain the soft skill "Interpersonal Intelligence".
 - 4) Write down the process of making pizza. How to make it within 15 minutes.
- B) Explain power point presentation and its importance. 04**
- Q.5 Write down any two of the following. 16**
- a) State three such situations from your professional life when you have felt the following emotions.
 - 1) Mad
 - 2) Sad
 - 3) Glad
 - b) Write down the process of making sugar in factory in your own language.
 - c) Write down the process of reaching the vegetable market in your city from your home.

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

**Entrepreneurship Science (Paper – III)
Principles of Marketing & Management Accounting (EN202)**

Day & Date: Tuesday, 20-06-2023

Max. Marks: 40

Time: 12:00 PM To 02:00 PM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagrams wherever necessary.

Q.1 Choose the correct alternatives from the options.

08

- 1) Marketing environment includes _____.
 - a) Internal
 - b) External
 - c) Micro & Macro
 - d) All of these
- 2) _____ is the real father of marketing management.
 - a) Henry Fayol
 - b) F.W. Taylor
 - c) Adam Smith
 - d) Philip Kotler
- 3) Market mix consists of _____.
 - a) Place
 - b) Price
 - c) Product, price, place & promotion
 - d) Product, price, place and profit
- 4) Marketing research is concerned with _____.
 - a) Anticipation of production
 - b) Supply position
 - c) Financial problems
 - d) Solution to specific problems of marketing
- 5) The _____ means organized method of providing each manager with all the data and only those data which he needs for his decisions.
 - a) Reporting to Management
 - b) Management Accounting
 - c) Management Information Technology
 - d) Management Information System
- 6) Management Accounting is meant for _____.
 - a) Cost and Financial Accountant
 - b) Financial Accountant
 - c) Shareholders
 - d) Stakeholders
- 7) Working capital means _____.
 - a) Current liabilities
 - b) Fixed assets
 - c) Net assets
 - d) Net current assets
- 8) Turnover ratio helps management in _____.
 - a) Managing resources
 - b) Managing debts
 - c) Evaluating performance
 - d) None of these

Q.2 Answer any four of the following:

08

- a) E-Marketing
- b) Internal Environment
- c) Define Segmentation.
- d) Define Marketing Services
- e) Define Ratio
- f) Define Working Capital

Q.3 Answer any two of the following.

08

- a) Define Responsibility Accounting.
- b) Explain need of working capital.
- c) Define concept of financial analysis.

Q.4 Answer any two of the following.

08

- a) Calculate working capital if:

Cash	52000/-	Creditors	94000/-
Bank Bal	152000/-	Bill Payable	42000/-
Debtors	138000/-	O/S Expenses	44000/-
Stock	50000/-	Bank OD	25000/-

- b) Explain process of Marketing Research.
- c) State the Problems and tools in e-marketing.

Q.5 Answer any one of the following.

08

- a) Explain the criteria for Market segmentation and state benefit of market segmentation.
- b) Solve the ratios from the data given below.
 Capital -422000, Land -110000, Creditors -44500, Machinery -240000,
 Bills payable- 8500, Stock -88000, Os. Exp.- 1500, Cash -18600,
 Bank o/d -4500, Bank bal- 24400, Op. Stock-150000, Sales -800000,
 Purchases -250000, Closing stock -200000, Wages -100000,
 Gross profit -500000, Administration exp -80000, Selling exp- 40000,
 Salary -140000, Net Profit- 240000.

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

**ENTREPRENEURSHIP SCIENCE (Paper – IV)
Cost Accounting and Project Management (EN203)**

Day & Date: Wednesday, 21-06-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Draw neat diagrams and give equations wherever necessary.
3) Figures to the right indicate full marks.
4) Use of logarithmic table and Calculator is allowed.
(At. Wts. H=1, C=12, O=16, N=14, Na=23, Cl=35.5)

Q.1 Choose the correct alternative from the option.**08**

- 1) The main objective of cost accounting is to provide information to the management for _____.
a) Planning
b) Policy Making
c) Decision Making
d) None of these
- 2) Bin card is also known as _____.
a) Storage Ledger
b) Stock Card
c) Material Bill
d) None of these
- 3) _____ is a person responsible for setting up a Business.
a) Entrepreneur
b) Businessman
c) Manager
d) Planner
- 4) Which are the following industries are to be given compulsory licensing?
a) Alcohol
b) Tobacco
c) Drugs & pharmaceutical
d) All of these
- 5) A program is usually a group of _____.
a) Plans
b) People & Work
c) Related Project
d) unrelated Project
- 6) Resource refers to _____.
a) Manpower
b) Machinery
c) Material
d) All of these
- 7) The cost of structure of proposed project must consider _____.
a) Cost of material input
b) Labour Cost
c) Factory Overheads
d) All of these
- 8) SSI stands for _____.
a) Side Scale Industry
b) Small Scale Industry
c) Server Scale Industry
d) Secure Scale Industry

Q.2 Answer any four of the following.**08**

- a) Define Cost.
- b) Define Accounting.
- c) Define Project.
- d) Define Management.
- e) Define Report.
- f) Define Life Cycle.

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

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

**INDUSTRIAL CHEMISTRY (Paper – III)
Fundamentals of Physical Chemistry (EN204)**

Day & Date: Thursday, 22-06-2023

Max. Marks: 40

Time: 12:00 PM To 02:00 PM

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

Q.1 Choose the correct alternatives from the options.**08**

- 1) Reaction which are bimolecular yet following _____ order kinetics are called pseudo unimolecular reaction.
 - a) Zero
 - b) First
 - c) Second
 - d) Third
- 2) The reciprocal of viscosity is called _____.
 - a) surface tension
 - b) fractional resistance
 - c) Fluidity
 - d) none of these
- 3) Joule- Thomson expansion of an ideal gas produces _____.
 - a) Heating
 - b) Cooling
 - c) no change in temperature
 - d) none of these
- 4) The number of moles of solute in one litre of solution is called as _____.
 - a) Normality
 - b) Molality
 - c) mole fraction
 - d) Molarity
- 5) Rate of reaction _____.
 - a) increases with increase in temperature
 - b) decrease with increase in temperature
 - c) is independent on temperature
 - d) is independent of concentration
- 6) The temperature at which a real gas obeys the ideal gas behaviour over a wide range of pressure is _____.
 - a) critical temperature
 - b) Boyle's temperature
 - c) reduced temperature
 - d) inversion temperature
- 7) Molecularity never be _____.
 - a) Zero
 - b) Negative
 - c) Infinity
 - d) all of these
- 8) The unit of first order rate constant are _____.
 - a) $\text{mole dm}^{-3} \text{ s}^{-1}$
 - b) $\text{dm}^3 \text{ mole}^{-1} \text{ s}^{-1}$
 - c) s^{-1}
 - d) s^{+1}

- Q.2 Answers any four of the following. 08**
- a) What is mean by rate of reaction?
 - b) Write Van der Waals equation.
 - c) Mention Macleod's formula for parachor.
 - d) Define molecular weight and equivalent weight.
 - e) What are the advantages of stalagmometer or drop-pipette?
 - f) Define second order reaction with example.
- Q.3 Write short notes on any two of the following. 08**
- a) Factors affecting the rate of reaction
 - b) Andrew's isotherm of CO₂
 - c) Mole fraction and atomic fraction
- Q.4 Answers any two of the following. 08**
- a) Explain in detail Joule Thomson effect.
 - b) Explain zero order reaction with its example.
 - c) Explain molarity and molality with example.
- Q.5 Answers any one of the following. 08**
- a) Explain Drop - Weight method for determination of surface tension.
 - b) Determine the rate constant for first order reaction. Write any two characteristics of first order reaction.

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

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

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

INDUSTRIAL MICROBIOLOGY (Paper-IV)

Basics techniques in Industrial Microbiology (EN207)

Day & Date: Sunday, 02-07-2023

Max. Marks: 40

Time: 12:00 PM To 02:00 PM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams wherever necessary.

Q.1 Choose the correct alternatives from the options.

08

- 1) _____ is down stream processing.

a) Media Screening	b) Media formulation
c) Product recovery	d) Inoculum preparation
- 2) In fermentation industry maintenance cost varies from _____% of the capital cost.

a) 40-80	b) 4-8
c) 50-60	d) 1-2
- 3) _____ is not the physical method for cell rapturing.

a) Enzymatic	b) Milling
c) Homogenization	d) Ultrasonication
- 4) Pyrogen testing is regarding to testing increased _____ of the body.

a) Blood pressure	b) Cholesterol
c) Thyroid	d) Temperature
- 5) _____ is primary treatment of effluent from fermentation industry.

a) Activated sludge	b) Trickling filters
c) Oxidation ponds	d) Sedimentation
- 6) Initial use of computer in fermentation technology was done by _____.

a) Bill Gates	b) Yamashita and Murao
c) Kinoshita et. al	d) Louis Pasteur
- 7) The charged molecules can be separated by _____ chromatography.

a) Ion exchange	b) Affinity
c) Adsorption	d) Thin layer
- 8) In BOD test of effluent, incubation is carried out at _____ °C temperature.

a) 37	b) 10
c) 45	d) 20

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

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**B.Sc. (Entrepreneurship) (Semester - II) (Old) (CBCS) Examination:
March/April-2023
INDUSTRIAL BIOTECHNOLOGY (Paper - III)
Basics of Biomolecules (EN208)**

Day & Date: Monday, 03-07-2023
Time: 12:00 PM To 02:00 PM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Rewrite the following sentences by choosing the correct alternative. 08

- 1) Allosteric enzymes are _____.
 - a) smaller than simple enzymes
 - b) smaller than simple enzymes but not complex
 - c) larger than simple enzymes
 - d) larger and more complex than simple enzyme
- 2) _____ is the general formula of Carbohydrates.

a) $(C_6H_{12}O_6)_n$	b) $(CH_2O)_n$
c) $(C_4H_8O_4)_n$	d) $(C_2H_4O)_n COOH$
- 3) _____ is an oligosaccharide linked to protein.

a) Glycolipid	b) Ganglioside
c) Galactoside	d) Glycoprotein
- 4) Amino acids with aromatic side chains are _____.
 - a) phenylalanine, tryptophan, tyrosine
 - b) phenylalanine, tryptophan, serine
 - c) tryptophan, asparagine, tyrosine
 - d) tryptophan, threonine, tyrosine
- 5) ATP is a _____.

a) nucleic acid	b) vitamin
c) nucleoside	d) nucleotide
- 6) _____ vitamin helps in blood clotting.

a) Vitamin C	b) Vitamin D
c) Vitamin A	d) Vitamin K
- 7) _____ is a fat-soluble vitamin.

a) Vitamin B	b) Vitamin B ₁₂
c) Vitamin K	d) Vitamin C
- 8) The bond between amino is called _____.

a) Peptide bond	b) Hydrogen bond
c) Ionic bond	d) Acidic bond

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

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

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

ENTREPRENEURSHIP (Paper - V)

Principles of Business Management & Business Organization (EN301)

Day & Date: Monday, 03-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Draw neat diagrams and give equations wherever necessary.
3) Figures to the right indicate full marks.

Q.1 Multiple choice questions.

08

- 1) Which of the following is not a function of management?

a) Planning	b) Staffing
c) Co-operation	d) Controlling

- 2) Henry Fayol was a _____.

a) Social scientists	b) Mining engineer
c) Accountant	d) Production engineer

- 3) _____ describes one of the concepts, that is crucial for the smooth running of an organization. Name that concept.

a) Planning	b) Management
c) None of the options are correct	d) Coordination

- 4) In which step of the planning process pros and cons of each alternative is examined.

a) Developing Premises
b) Setting up Objective
c) Evaluating alternatives course of action
d) Selecting an alternative premise

- 5) _____ is the process of influencing the behavior of people by making them strive voluntarily towards the achievement of organizational goals.

a) Supervision	b) Communication
c) Leadership	d) Motivation

- 6) These needs are most basic in the hierarchy of motivation theory and correspond to primary needs.

a) Self Actualization Needs	b) Basic Physiological Needs
c) Security Needs	d) Belonging Needs

- 7) While other functions prepare a setting for action, name the function that initiates the action in the organization.

a) Planning	b) Organizing
c) Staffing	d) Directing

- 8) Identify the style of leadership in which the superior uses force from within the groups in order to establish control.

a) Autocratic leadership	b) Democratic leadership
c) Laissez-faire leadership	d) Authoritarian leadership

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

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

**ENTREPRENEURSHIP (Paper - VI)
Advanced Accountancy & Auditing (EN302)**

Day & Date: Tuesday, 04-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams and give equations wherever necessary.
4) Use of logarithmic table and calculator is allowed

Q.1 Choose the correct alternatives from the options.

08

- 1) Which shortcut key is used in Company features screen to use of accounting features of Tally?
 - a) F1
 - b) F2
 - c) F3
 - d) F4
- 2) Which option is used to open company Created in Tally?
 - a) Create Company
 - b) Alter
 - c) Select Company
 - d) Shut company
- 3) Tally package is developed by _____.
 - a) Peutronics
 - b) Tally Solution
 - c) Card Software
 - d) Vedika Software
- 4) Which submenu is used for voucher entry in Tally?
 - a) Voucher
 - b) Accounting Voucher
 - c) A/cing Information
 - d) None of these
- 5) BRS stands for _____.
 - a) Bank Reconciliation Statement
 - b) Better Record Statement
 - c) Big Reconciliation Statement
 - d) Browse Record Statement
- 6) CFS stands for _____.
 - a) Credit Flow Statement
 - b) Cash Flow statement
 - c) Current Flow Statement
 - d) Count Flow Statement
- 7) _____ is a Type of Audit.
 - a) Internal Audit
 - b) Cash Audit
 - c) Mid Audit
 - d) None of these
- 8) GST stands for _____.
 - a) Goods and Service Tax
 - b) Goods and Sales Tax
 - c) Goals and Service Tax
 - d) Guide and Security Tax

Q.2 Answer any four of the following.

08

- a) Draw a format of Journal
- b) Transaction
- c) Charitable Trust
- d) Value Added Tax
- e) Audit Report

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

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

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

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**B.Sc. (Entrepreneurship) (Semester - III) (New) (CBCS) Examination-
March/April - 2023
MICROBIAL BIOTECHNOLOGY (Paper – V)
Genetics (EN305)**

Day & Date: Friday, 07-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

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

Q.1 Choose the correct alternatives and rewrite the following sentence. 08

- 1) Mendel took _____ contrasting characteristics of pea plants.
 - a) five
 - b) six
 - c) seven
 - d) eight
- 2) A fully expressed allele is referred to as _____.
 - a) Dominant
 - b) Recessive
 - c) Heterozygous
 - d) Homologous
- 3) Damage and errors in DNA cause _____.
 - a) DNA repair
 - b) Translation
 - c) Transcription
 - d) Mutation
- 4) The IS elements can be identified by the presence of _____.
 - a) Antibiotic resistance gene
 - b) 50 bp inverted repeat
 - c) Integrase Site
 - d) Endonuclease cleavage site
- 5) Introduction of DNA molecules into the recipient organism is termed as _____.
 - a) Translation
 - b) Transformation
 - c) Transduction
 - d) Transcription
- 6) The process of transfer of characters from parents to offspring is referred to as _____.
 - a) Inheritance
 - b) Variation
 - c) Heritage
 - d) Genetics
- 7) The ratio of complementary gene interaction is _____.
 - a) 15:1
 - b) 9:3:3:1
 - c) 9:7
 - d) 1:2:1
- 8) Linkage _____ as the distance between two genes _____.
 - a) Decreases, decreases
 - b) Unaffected, decreases
 - c) Increases, increases
 - d) Decreases, Increases

Q.2 Answer any four of the following: 08

- a) Define Crossing Over.
- b) Explain Law of Dominance.
- c) Enlist Mutagenic agent

- d) Draw structure of Chromosome.
- e) Explain Recombination
- f) Explain Fate of exogenote.

Q.3 Write short notes on any two of the following: 08

- a) Explain Law of Co-dominance and Incomplete dominance with suitable example.
- b) Define Chromosome and explain types of Chromosomes.
- c) Define and explain Chromosomal aberration with its types.

Q.4 Answer any two of the following: 08

- a) Define Transposable elements and explain its types.
- b) Add a detail note on Mendel's experiment.
- c) Explain factors affecting crossing over.

Q.5 Answer any one of the following: 08

- a) Define and explain the process of Conjugation in detail.
- b) What is Epistasis? Explain Complementary Gene Interaction.

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

**MICROBIAL BIOTECHNOLOGY (Paper – VI)
Fermentation Technology (EN306)**

Day & Date: Saturday, 08-07-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw a neat diagram wherever necessary.

Q.1 Choose the correct alternatives from the options.

08

- 1) _____ is major gas produced during biogas formation.
 - a) Butane
 - b) Ethane
 - c) Methane
 - d) CNG
- 2) Molasses is used for production of _____.
 - a) Alcohol
 - b) Sugar
 - c) Biogas
 - d) Antibiotic
- 3) _____ is used for production of bioinsecticide.
 - a) E. coli
 - b) S. aureus
 - c) B. subtilis
 - d) B. thuringiensis
- 4) _____ is added as a precursor during vitamin B12 fermentation.
 - a) Zinc
 - b) Calcium
 - c) Cobalt
 - d) Aluminum
- 5) Malt used for beer fermentation is prepared from _____.
 - a) Ground Nut
 - b) Peanut
 - c) Barley
 - d) Grape juice
- 6) Penicillin is an example of _____ antibiotic.
 - a) Narrow spectrum
 - b) Broad spectrum
 - c) Non spectrum
 - d) Whole spectrum
- 7) Bacteria used for SCP production approximately contain _____% protein.
 - a) 10-20
 - b) 4-8
 - c) 50-80
 - d) 1-5
- 8) Lysine fermentation is carried by using _____.
 - a) Aspergillus Niger
 - b) Aspergillus Oryzae
 - c) Corynebacterium glutamicum
 - d) Pen-chrysogenum

Q.2 Answer Any Four of the following:

08

- a) Which medium is used for streptomycin production?
- b) What is full form of PHB?
- c) Which method is used for recovery of Alcohol?
- d) Define Biofertilizer.
- e) Which is substrate for Amylase enzyme?
- f) What is Biofuel?

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

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

Entrepreneurship (Paper – VII)

Corporate Accounting & Professional Ethics (EN401)

Day & Date: Monday, 19-06-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Multiple choice questions.

08

- 1) An issue of shares that is not a public issue but offered to a selected group of persons is called _____.
 - a) Public offer
 - b) Private placement of shares
 - c) Initial public offer
 - d) None of the above
- 2) Forfeiture of shares results in the reduction of _____.
 - a) Paid-up capital
 - b) Authorized capital
 - c) Fixed assets
 - d) Reserve capital
- 3) Which of these is not a component of the final accounts?
 - a) Balance sheet
 - b) Trading Account
 - c) Profit and Loss Sheet
 - d) Transaction receipts
- 4) A balance sheet _____.
 - a) Tabulates the assets and liabilities of the company on a date
 - b) Shows assets and liabilities of a company
 - c) Indicates the growth rate of the company
 - d) Both a and b
- 5) A company can be liquidated in any of following ways under the Companies Act, 2013 after 1-4-2017 _____.
 - a) Compulsory winding-up by the Tribunal
 - b) Voluntary winding-up by the Members or Creditors
 - c) Winding-up under the supervision of the Court
 - d) All of the above
- 6) Amount of calls in advance is treated as _____.
 - a) Secured creditor
 - b) Asset not specifically pledged
 - c) Preferential creditor
 - d) Unsecured creditor
- 7) Three C's of business ethic are _____.
 - a) Compliance, Contribution, Consequences
 - b) Complications, Contribution, Consequences
 - c) Compliance, Comfort, Consequences Compliance
 - d) Caring, Confidentiality
- 8) _____ follows the ethics for welfare of everyone in the society.
 - a) Utilitarian approach
 - b) Virtue approach
 - c) Fairness approach
 - d) Common good approach

Q.2 Answer any four of the following.

08

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

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

08

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

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

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

Q.4 Answer any two of the following

08

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

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

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

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

Pass necessary journal entries of forfeiture and reissue of shares.

Q.5 Answer any one of the following.

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

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

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

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

**Entrepreneurship (Paper – VIII)
International Marketing & Marketing Decision (EN402)**

Day & Date: Tuesday, 20-06-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labelled diagrams wherever necessary.
4) Use of log table and Calculator is allowed.

Q.1 Choose the correct alternatives from the options.**08**

- 1) _____ stage usually lasts the longest in a product's life cycle.
 - a) Decline
 - b) Introduction
 - c) Growth
 - d) Maturity
- 2) _____ is a period of market acceptance and increasing profits.
 - a) Product development
 - b) Maturity
 - c) Growth
 - d) Introduction
- 3) The process of subdividing total markets into several sub market is _____.
 - a) market fluctuating
 - b) market positioning
 - c) market segmentation
 - d) market penetration
- 4) Manufacturer → Consumer is an example for _____ level channel.
 - a) Zero
 - b) One
 - c) Two
 - d) Three
- 5) Which of the following is NOT considered a type of reseller?
 - a) Wholesaler
 - b) Retailer
 - c) Manufacturer
 - d) Distributor
- 6) Factors affecting the international marketing is/are _____.
 - a) Social factors
 - b) Economic factors
 - c) Political factors
 - d) All of these
- 7) _____ is the action and decisions process or people who purchase goods and services for personal consumption.
 - a) Consumer behavior
 - b) Consumer interest
 - c) Consumer attitude
 - d) Consumer perception
- 8) Fixing a high price for a new product will be called as _____.
 - a) price skimming
 - b) price segmentation
 - c) dual pricing
 - d) customary pricing

Q.2 Answer Any Four of the following:**08**

- a) Define global marketing.
- b) What is price sensitivity?
- c) What is letter of credit?
- d) What is positioning?
- e) Define internet marketing.
- f) Define is bill of lading.

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

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

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

**INDUSTRIAL CHEMISTRY (Paper – VIII)
Industrial Aspects of Applied Chemistry (EN404)**

Day & Date: Thursday, 22-06-2023

Max. Marks: 40

Time: 09:00 AM To 11:00 AM

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labelled diagrams wherever necessary.

Q.1 Choose the correct alternatives from the options.

08

- 1) Ammonium sulphate contains _____% of nitrogen.

a) 21	b) 18
c) 14	d) 10
- 2) The process of cleaning article in acid is _____.

a) Washing	b) Pickling
c) Moulding	d) Tumbling
- 3) The process in which coating of oxide film on surface of aluminium & its alloy is _____.

a) Electrolysis	b) Coating
c) Anodizing	d) Protection
- 4) In electrolysis the electrodeposition takes place at _____.

a) Anode	b) Glass electrode
c) Platinum electrode	d) Cathode
- 5) Optical glass is known as _____.

a) Crookers	b) Soft
c) Staple	d) Hard
- 6) _____ is added to slow down the rate of setting of cement.

a) CaO	b) MgO
c) CaSO ₄ .2H ₂ O	d) SiO ₂
- 7) The upper part of blast furnace is called as _____.

a) Heart	b) Throat
c) Body	d) Well
- 8) Urea has highest percentage of _____.

a) H	b) K
c) P	d) N

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

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

Day & Date: Friday, 23-06-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagrams wherever necessary.

Q.1 Rewrite the following sentences by choosing the correct alternative. 08

- 1) The rho protein has _____ subunit.

a) 4	b) 8
c) 6	d) 10
- 2) The sequence of the structural genes in the lac operon is _____.

a) lacA-lacZ-lacY	b) lacA-lacY-lacZ
c) lacZ-lacY-lacA	d) lacZ-lacA-lacY
- 3) The fragments of DNA are joined together by _____ enzymes.

a) DNA polymerase	b) Ligase
c) Endonuclease	d) Primase
- 4) The DNA polymerase involved in base excision repair is _____.

a) DNA polymerase γ	b) DNA polymerase α
c) DNA polymerase β	d) DNA polymerase σ
- 5) The bases are held together in a DNA double helix by hydrogen bonds. These bonds are _____.

a) Covalent bonds	b) Non-covalent bonds
c) Van der Waals forces	d) Ionic bonds
- 6) The initiation codon is _____.

a) UAG	b) UAA
c) AUG	d) UGA
- 7) DNA replication is _____.

a) semi-conservative and discontinuous
b) Conservative
c) semi-conservative and semi- discontinuous
d) conservative and discontinuous
- 8) Lac Operon will be turned on when _____.

a) Lactose is more than glucose
b) Lactose is less in the medium
c) Glucose is enough in the medium
d) Lactose is less than glucose

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

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No.

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

**MICROBIAL BIOTECHNOLOGY (Paper – VIII)
Food & Dairy Technology (EN406)**

Day & Date: Saturday, 01-07-2023
Time: 09:00 AM To 11:00 AM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagrams wherever necessary.

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

08

- 1) As per MBRT test decolorization after 8 hours indicates that milk has _____ quality.

a) better	b) good
c) excellent	d) poor
- 2) Milk contamination is possible due to _____.

a) udder	b) utensils
c) water	d) all of these
- 3) Cream from the milk is obtained by using _____.

a) Clarification	b) Filtration
c) Pasteurization	d) Centrifugation
- 4) Butter contains at least _____ % milk fat.

a) 80	b) 50
c) 30	d) 10
- 5) Rennet is used in manufacturing of _____.

a) ice cream	b) cheese
c) butter	d) milk
- 6) Sodium alginate is used as _____ in ice cream.

a) emulsifiers	b) stabilizer
c) additives	d) preservatives
- 7) *Serratia marcescens* give _____ spots in spoiled meat.

a) yellow	b) green
c) red	d) blue
- 8) Vat Pasteurization or Low temperature Holding Pasteurization is carried at _____.

a) 62°C for 30 minutes	b) 72°C for 15 second
c) 138°C for 2 second	d) 200°C for 15 second

Q.2 Answer any four of the following.

08

- 1) What is optimum pH?
- 2) What is milk?
- 3) How much energy and calcium has been obtained from 100g cream?
- 4) Which vitamin is predominant in milk butter?
- 5) What is added for curdling of milk in the process of cheese making process?
- 6) Who maintains osmotic balance of food?

Q.3 Write short notes on any two of the following. 08

- 1) Phosphatase test
- 2) Milk contamination
- 3) Butter

Q.4 Answer any two of the following. 08

- 1) Explain in brief composition, food & nutritive value, production and uses of cream.
- 2) Describe in brief composition and types, manufacturer and uses of cheese.
- 3) Write in brief General principles and different method of food preservation.

Q.5 Answer any two of the following. 08

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

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

ENGLISH

Business English (EN501)

Day & Date: Sunday, 02-07-2023
Time: 03:00 PM To 05:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Multiple choice questions

08

- 1) "The Gift of the Magi" is a story composed by _____.
a) William Shakespeare b) O Henry
c) William Wordsworth d) Raja Rao
- 2) What did Della sell off to buy a gift for Jim?
a) Hair b) Combs
c) Jewellery d) None of these
- 3) Rabindranath Tagore got the Noble Prize for Literature in _____.
a) 1911 b) 1912
c) 1913 d) 1914
- 4) The central character from the story "The Homecoming" is _____.
a) Phatik b) Makhan
c) Vishwambhar d) Sita
- 5) "The Solitary Reaper" is a poem by _____.
a) William Wordsworth b) William Shakespeare
c) John Donne d) None of these
- 6) "The Queen's Rival" is a poem by _____.
a) Sri Arabindo b) Sarojini Naidu
c) R. K. Narayan d) None of these
- 7) When the focus is on the agent of action, it is known as _____.
a) Passive voice b) Homophones
c) Active voice d) Homographs
- 8) In the sentence, "Turn down the volume of the T.V." the phrasal verb is _____.
a) Turn down b) Volume
c) T.V. d) of

Q.2 Answer any Four of the following.

12

- 1) How much did Della sell her hair for?
- 2) Why did Makhan sit on the log?
- 3) What was Queen Gulnaar's desire?
- 4) Where did the village school master live?
- 5) What is the theme of the poem "The Road Not Taken"?
- 6) What is media literacy?

Q.3 Answer any One of the following. 10

- 1) Why was Della sad in the beginning of the story "The Gift of the Magi"?
- 2) Why the Queen is unsatisfied and seeks a rival in the poem "Queen's Rival"?

Q.4 Answer the following question. 10

What is creativity & explain its importance?

Seat No.	
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B.Sc. (Entrepreneurship) (Semester - V) (New) (CBCS)
Examination: March/April-2023
Business Finance (EN502)

Day & Date: Monday, 03-07-2023
 Time: 03:00 PM To 06:00 PM

Max. Marks: 80

- Instructions:** 1) All questions are compulsory.
 2) Draw neat diagrams and give equations wherever necessary.
 3) Figures to the right indicate full marks.
 4) Use of logarithmic table and calculator is allowed.

Q.1 A) Multiple Choice Questions.

10

- 1) Funds are required for the _____.
 a) purchase of land & building b) purchase of machinery
 c) need of working capital d) All of the above
- 2) A Company can accept public deposits for a maximum period of _____.
 a) One Year b) Two Year
 c) Three Year d) Four Year
- 3) Equity finance is _____.
 a) Short term finance b) Medium term finance
 c) Long term finance d) All the above
- 4) Return paid on debenture is _____.
 a) Interest b) Dividend
 c) Commission d) Tax
- 5) ADRs are issued in _____.
 a) USA b) India
 c) Europe d) Russia
- 6) Exchange rates are determined in _____.
 a) Stock Market b) Capital Market
 c) Money Market d) Foreign exchange market
- 7) Owner of the asset is called _____.
 a) Lessee b) Lessor
 c) Lease d) none of the above
- 8) International finance is concerned with _____.
 a) Long-term Decisions b) Short-term Decisions
 c) Both a) and (b) d) none of above
- 9) Capital market is a market for _____.
 a) Long term capital b) Short term capital
 c) Working capital d) none of above
- 10) Capital Budgeting deals with _____.
 a) Long-term Decisions b) Short-term Decisions
 c) Both a) and (b) d) none of above

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

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

Day & Date: Tuesday, 04-07-2023
Time: 03:00 PM To 06:00 PM

Max. Marks: 80

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagrams wherever necessary.

Q.1 A) Choose the correct alternatives from the options. 10

- 1) Human resource management emphasis on _____.
 - a) Development of people
 - b) Punishment of people
 - c) Adoption of people
 - d) None of these
- 2) Off the job training method includes _____.
 - a) Syndicate
 - b) Vestibule training
 - c) Sensitivity training
 - d) All of these
- 3) Methods of job evaluation are _____.
 - a) Qualitative method
 - b) Quantitative method
 - c) Both (a) and (b)
 - d) None of these
- 4) _____ is a factual statement of tasks & duties involved in a job.
 - a) Job description
 - b) Job specification
 - c) Job evaluation
 - d) Job Analysis
- 5) _____ is the systematic, periodic and impartial rating of an employee excellence in matters pertaining to his present job and his potential for a better job.
 - a) Performance appraisal
 - b) Compensation and motivation
 - c) Training and Development
 - d) Performance indicator
- 6) Traditional method of performance appraisal includes _____.
 - a) Free form or easy method
 - b) Paired comparison method
 - c) Confidential reports
 - d) All of these
- 7) Modern method of performance appraisal are: _____.
 - a) Assessment centre method
 - b) Management by objectives
 - c) BARS (Behaviorally anchored rating scale)
 - d) All of these
- 8) The combination of peer, superior, subordinate and self-review appraisal is known as _____.
 - a) 360° appraisal System
 - b) Human resource accounting
 - c) All round review
 - d) Feed forward

SLR-QD-51

- 9) _____ is a performance appraisal technique that involves agreement between employee and manager on goals to be achieved in a given period.
- a) MBO
 - b) Rating scales
 - c) BARS
 - d) BOS
- 10) HRM is _____.
- a) Interrelated
 - b) Interdependent
 - c) Interacting
 - d) All of these

B) Answer in one sentence. / Fill in the blanks. 06

- 1) Process of studying and collecting information about a job is known as _____.
- 2) HRM is an art of _____.
- 3) HR focuses on _____.
- 4) HRM is the process of _____.
- 5) The role of HR Director is _____.
- 6) HRM is Concerned with _____.

Q.2 Answer the following. (Any Eight) 16

- a) Define Job Analysis.
- b) Define Job Description.
- c) Define ESI.
- d) Define Provident Fund.
- e) Define Gratuity.
- f) Define Promotion.
- g) Define Transfer.
- h) Define Training.
- i) Define Placement.
- j) Define Selection.

Q.3 A) Answer the following. (Any two) 10

- 1) Explain Training methods.
- 2) Explain Steps in selection process.
- 3) Explain Functions of HRM.

B) Write short note on Elements of career development programme. 06

Q.4 A) Answer the following. (Any two) 08

- 1) Explain External Sources of Recruitment.
- 2) Explain Role of HRM in Organization.
- 3) Explain Internal Sources of Recruitment.

B) Explain Job Specification in detail. 08

Q.5 Answer the following. (Any two) 16

- a) Define Internal Mobility and explain its types in details.
- b) Define External Mobility and explain its types in details.
- c) Explain performance appraisal methods in details.

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B.Sc.-III (Entrepreneurship) (Semester - V) (New) (CBCS)
Examination: March/April-2023
Spectroscopic Methods (EN504)

Day & Date: Wednesday, 05-07-2023
 Time: 03:00 PM To 06:00 PM

Max. Marks: 80

- Instructions:** 1) All questions are compulsory.
 2) Figures to the right indicate full marks.
 3) Draw neat labeled diagrams wherever necessary.
 4) Use of logarithmic table and calculator is allowed.

Q.1 A) Choose the correct alternative and rewrite the sentences again. 10

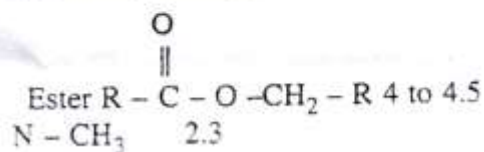
- 1) NMR spectrum of ethyl acetate shows ____ signals.
 - a) 3
 - b) 2
 - c) 1
 - d) 4
- 2) Highest m/e peak in mass spectrum is called as _____.
 - a) base peak
 - b) fragment peak
 - c) isotopic peak
 - d) parent peak
- 3) When absorption maximum value is shifted towards longer wavelength, this phenomenon is known as _____.
 - a) Hyperchromic
 - b) Hypochromic
 - c) Bathochromic
 - d) Hypsochromic
- 4) In NMR spectroscopy, absorption of long wavelength radio-frequency recitations by molecule cause change in _____.
 - a) electronic state
 - b) vibrational state
 - c) rotational state
 - d) spin state
- 5) IR spectroscopy is also known as _____.
 - a) vibrational
 - b) Rotational
 - c) Raman
 - d) electronic
- 6) The characteristic frequency range of carbonyl group is _____.
 - a) $\sim 3080 \text{ cm}^{-1}$
 - b) 1700 cm^{-1}
 - c) $\sim 3000 \text{ cm}^{-1}$
 - d) 950 cm^{-1}
- 7) Who discovered the mass spectrometer?
 - a) Francis Aston
 - b) Walter Kaufmann
 - c) Ernest O. Lawrence
 - d) J. J Thomson
- 8) According to Beer- Lambert law, absorbance is _____.
 - a) inversely proportional to concentration
 - b) directly proportional to concentration.
 - c) Directly proportional to transmittance.
 - d) directly proportional to the log of transmittance.
- 9) According to Hook's law vibrational frequency of bond increases when reduced mass of the system _____.
 - a) decreases
 - b) Increases
 - c) remains same
 - d) All the above

TABLE - 1
Characteristic Infrared Absorptions of Functional Groups

GROUP	FREQUENCY RANGE cm^{-1}	INTENSITY
A. Alkyl		
C - H (stretching)	2853 - 2962	(m - s)
Isopropyl - $\text{CH}(\text{CH}_3)_2$	1380 - 1385	(s)
	and	
tert - Butyl - $\text{C}(\text{CH}_3)_3$	1365 - 1370	(s)
	1385 - 1395	(m)
	and	
	- 1365	(s)
B. Alkenyl		
C-H (stretching)	3010 - 3095	(m)
C = C (stretching)	1620 - 1680	(v)
R - CH = CH ₂	985 - 1000	(s)
	and	
	905 - 920	(s)
R ₂ C = CH ₂	880 - 900	(s)
cis - RCH = CHR	675 - 730	(s)
trans - RCH = CHR	960 - 975	(s)
	(out of plane C-H bendings)	
C. Alkynyl		
\equiv C - H (stretching)	- 3300	(s)
C \equiv C (stretching)	2100 - 2260	(v)
D. Aromatic		
Ar - H (stretching)	- 3030	(v)
Aromatic substitution type (C-H out-of-plane bendings)		
Monosubstituted	690 - 710	(very s)
	and	
	730 - 770	(very s)
o - Disubstituted	735 - 770	(s)
m - Disubstituted	680 - 725	(s)
	and	
	750 - 810	(very s)
p - Disubstituted	800 - 840	(very s)
E. Alcohols, Phenols, Carboxylic Acids		
OH (alcohols, phenols, dilute solutions)	3590 - 3650	(sharp v)
OH (alcohols, phenols, hydrogen bonded)	3200 - 3550	(broad s)
OH (carboxylic acids, hydrogen bonded)	2500 - 3000	(broad v)
F. Aldehydes, Ketones, Esters 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		
N - H	3300 - 3500	(m)
H. Nitriles		
C \equiv N	2220 - 2260	(m)

TABLE - 2
Approximate Proton Chemical Shifts in NMR

TYPE OF PROTON	CHEMICAL SHIFT, DELTA, PPM (δ)
1° Alkyl, RCH_3	0.8 - 1.0
2° Alkyl, RCH_2R	1.2 - 1.4
3° Alkyl R_3CH	1.4 - 1.7
Allylic, $R_2C = \underset{\text{R}}{\underset{ }{C}} - CH_2$	1.6 - 1.9
Benzylic, $ArCH_2$	2.2 - 2.5
Alkyl chloride, RCH_2Cl	3.6 - 3.8
Alkyl bromide, RCH_2Br	3.4 - 3.6
Alkyl iodide, RCH_2I	3.1 - 3.3
Ether, $ROCH_2R$	3.3 - 3.9
Alcohol, $HOCH_2R$	3.3 - 4.0
Ketone, $RC(=O)CH_3$	2.1 - 2.6
Aldehyde, $RCH(=O)$	9.5 - 9.6
Vinylic, $R_2C = CH_2$	4.6 - 5.0
Vinylic $R_2C = \underset{\text{R}}{\underset{ }{CH}}$	5.2 - 5.7
Aromatic, ArH	6.0 - 9.5
Acetylenic, $RC \equiv CH$	2.5 - 3.1
Alcohol hydroxyl, ROH	0.5 - 6.0 ^a
Carboxylic, $RC(=O)OH$	10 - 1.3 ^a
Phenolic, $ArOH$	4.5 - 7.7 ^a
Amino $R-NH_2$	1.0 - 5.0



Spectroscopic Chart

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

A) For substituted dienes (Ethanol solution)

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

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

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

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

Solvent correction

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

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Set **P**

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

Advances in Fermentation Technology (EN505)

Day & Date: Thursday, 06-07-2023

Max. Marks: 80

Time: 03:00 PM To 06:00 PM

- Instructions: 1) All questions are compulsory.
2) Draw neat labeled diagrams wherever necessary.
3) Figures to the right indicate full marks.

Q.1 a) Choose the correct alternative and rewrite the sentences again. 10

- 1) SOPs are used to ensure consistency in daily operations. What does 'S' stand for in 'SOP'?
 - a) Special
 - b) Safety
 - c) Standard
 - d) Sustainable
- 2) _____ is part of quality management focused on providing confidence that quality requirements will be fulfilled.
 - a) Quality assurance
 - b) Quality
 - c) Quality management
 - d) Updating
- 3) TRIPS agreement is administered by the _____.
 - a) World Bank (WB)
 - b) World Trade Organization (WTO)
 - c) United Nations Organization (UNO)
 - d) United Nations Conference on Trade and Development (UNCTAD)
- 4) Geographical Indication (GI) tag is given as per the _____.
 - a) Indian Copyright Act, 1957
 - b) New Design Act, 2000
 - c) Patent Act, 1970
 - d) Geographical Indications (Registration and Protection) Act, 1999
- 5) _____ is the first stage of risk assessment.
 - a) Exposure assessment
 - b) Hazard identification
 - c) Toxicity study
 - d) Risk characterization
- 6) _____ people will be selected for phase I clinical trial.
 - a) More than 3000
 - b) 300-3000
 - c) 20-300
 - d) 20-50
- 7) Active vaccines are used for _____.
 - a) prevention of diseases
 - b) treatment of diseases
 - c) surgical therapy
 - d) increasing performance in sports
- 8) Interferons are used against _____.
 - a) Diabetics
 - b) Hypertension
 - c) Viral infections
 - d) Brain hemorrhage

- 9) Gum biopolymer is produced by _____.
 a) *Xanthomonas campestris*
 b) *Neisseria gonorrhoeae*
 c) *Pseudomonas aeruginosa*
 d) *Haemophilus influenzae*
- 10) Nisin is _____.
 a) vaccine
 b) antibiotic
 c) beverage
 d) solvent

b) Answer one sentence**06**

- 1) What is self-inspection in quality assurance?
- 2) What is copyright as per IPR?
- 3) What is clinical trial?
- 4) What is toxoid?
- 5) Give the one example of biopolymer.
- 6) What is carcinogenicity?

Q.2 Answer any eight of the following.**16**

- a) What is quality management?
- b) What is quality control?
- c) What is industrial design as per IPR?
- d) What are trade secrets?
- e) What are biosafety levels?
- f) What is Immuno-prophylaxis?
- g) What is genetic engineering?
- h) What is fermentation?
- i) What are complaints as per quality assurance?
- j) What is post genomic era?

Q.3 a) Answer any two of the following.**10**

- 1) Explain in detail sterility and pyrogen testing of pharma products.
- 2) Describe in detail trademark and geographical indication.
- 3) Write in detail on bioethics principles.

b) Write a short note on vaccine.**06****Q.4 a) Answer any two of the following.****08**

- 1) Explain in brief production of insulin using rDNA technology.
- 2) Describe in brief production of Acetone-butanol.
- 3) Write in brief on good manufacturing practices.

b) Write an essay on IPR.**08****Q.5 Answer any two of the following.****16**

- a) Describe in detail Plant Variety & Farmer's Right Act.
- b) Explain in detail mushroom production.
- c) Write an essay on testing of sterility, pyrogenicity, allergy, carcinogenicity, toxicity of food products.

- 10) Wort is boiled with the hops _____.
 a) to help in protein coagulation
 b) to provide bitter taste and flavour to the beer
 c) to help in the coagulation of tannins
 d) All of the above

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

- 1) Wine History
 2) Fermentation
 3) Enlist Environmental factors Affecting Fermentation
 4) Clarification
 5) Aging
 6) Status of Indian brewing

Q.2 Solve any Eight of the following. 16

- a) Write note on Grapes variety.
 b) Write note on Chemical constituents of Grapes and Wine.
 c) Explain in brief Rejuvenation of Old Wines
 d) Write note on Wine classification
 e) Explain in brief Biochemistry of wine production.
 f) Write note on Wine Laws and Authentications.
 g) Explain alcoholic beverages & human health
 h) Explain in brief New concept in wine production.
 i) Write note on Factors Affecting on Aging
 j) Write Visual Sensations in wine

Q.3 a) Attempt Any Two of the Following. 10

- 1) Explain Importance of automation operation in wine industries.
 2) Explain Acidity and pH Adjustment in wine.
 3) Explain Anatomical and chemical constituents of oak.

b) Short note/Solve. 06
 Explain in detail Wine Assessment Method.

Q.4 a) Attempt any Two of the following. 08

- 1) Explain in brief Odor Assessment in Wine Testing.
 2) Write in brief must preparation and clarification.
 3) Explain in brief Advantages and Disadvantages of Oak Cooperage.

b) Describe /Explain /Solve. 08
 Explain in detail Physiology of matured grapes

Q.5 Attempt any Two of the following. 16

- a) Describe in detail Pre-fermentation Practices.
 b) Explain in detail Post-fermentation Treatments.
 c) Write in detail basic procedures in wine making.

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

ENGLISH

Literary Mindscapes – I (EN601)

Day & Date: Monday, 19-06-2023
Time: 03:00 PM To 05:00 PM

Max. Marks: 40

- Instructions:** 1) All questions are compulsory.
2) All questions carry equal marks.
3) Figures to the right indicate full marks.

Q.1 Choose the correct word /Phrase from the given options and complete the sentence. 08

- 1) Aksionov lived as a convict in Siberian prison for _____ years.

a) twenty six	b) twenty two
c) twenty	d) thirty two
- 2) Mrs. Quick was associated with the _____.

a) Welfare Committee	b) Old age Home
c) Orphanage	d) Rotary Club
- 3) _____ is not a dream says John Keats in the poem 'Ode to Blindness'.

a) illusions	b) ambition
c) life	d) goal
- 4) 'My Last Duchess' is based on historical events involving the _____.

a) Duke of Ferrara	b) Duke of Syberia
c) Robert Browning	d) Ezra Pound
- 5) _____ was found by Robert which was left by his wife.

a) money	b) note
c) ticket	d) wallet
- 6) The _____ of nature helps in strengthening the bond between nature and human beings.

a) cruelty	b) greenery
c) beauty	d) ugliness
- 7) The little lamb followed Mary everywhere. (Choose the type of adverb)

a) adverb of time	b) adverb of manner
c) adverb of place	d) adverb of frequency
- 8) He said to her, "What a Cold day!"

a) He told her that it was a Cold day.
b) He exclaimed that it was a Cold day.
c) He exclaimed Sorrowfully that it was a Cold day.
d) He claimed that it was a very Cold day.

Q.2 Write answers in short (Any Four)

12

- 1) What did Robert Quick expect from his daughter's after returning from the business trip?
- 2) What did Makar Semyonich want from Aksionov?
- 3) Why the mother feels sad while narrating the story of Sita?

- 4) What are the things of beauty mentioned in the poem?
- 5) What is the poem 'My Last Duchess' about?
- 6) How does Charlotte Bronte ask her readers to look towards life?

Q.3 Answer any One of the following Questions. 10

- 1) How can technology literacy Skills help learners in the future?
- 2) What life skills are needed to become a good leader?

Q.4 As a Sensitive human being, what measures do you to take to conserve the environment and how will you educate people about the importance of environment? 10

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

International Business (EN602)

Day & Date: Tuesday, 20-06-2023
Time: 03:00 PM To 06:00 PM

Max. Marks: 80

- Instructions:**
- 1) All questions are compulsory.
 - 2) Draw neat labelled diagrams wherever necessary.
 - 3) Figures to right indicate full marks.
 - 4) Use of log table and calculators is allowed.

Q.1 A) Choose the correct alternative from the option.

10

- 1) SD stands for _____.
 - a) Sales and Direct
 - b) Sales and Distribution
 - c) Support and Distribution
 - d) Solid and Deserve
- 2) When was the first phase of globalization ended?
 - a) The World War I
 - b) The World War II
 - c) The Establishment of GATT
 - d) In 1913 when GDP was High
- 3) Select example of Indian Multinational company _____.
 - a) Hindustan unilever
 - b) Videocon
 - c) Tesco
 - d) Cargill
- 4) International Business transactions include _____.
 - a) Sales
 - b) Transportation
 - c) Investment
 - d) All of the above
- 5) MNC stands for _____.
 - a) Multinational cooperation
 - b) Multinational Corporation
 - c) Multinational Company
 - d) Multinational Collaboration
- 6) What is the first step to be international for a Company?
 - a) Franchise
 - b) Exporting
 - c) FDI
 - d) None of these
- 7) Economic globalization is a historical process, the result of _____.
 - a) Human Innovation
 - b) Technological Process
 - c) Both a & b
 - d) Knowledge
- 8) Capitalistic, communication and mixed are the types of _____.
 - a) Economic System
 - b) Social System
 - c) Cultural System
 - d) Political System
- 9) _____ is the first step in the internationalization process.
 - a) License
 - b) Foreign Investment
 - c) Sales
 - d) Export

10) The _____ Company produce, Markets, invests and Operates across the World.

- a) Global
- b) International
- c) Transactional
- d) Multinational

B) Answer the following. 06

- 1) Long form WTO?
- 2) Long form GATT?
- 3) Define Business.
- 4) Define Foreign Trade.
- 5) Long form MM?
- 6) What is Mean by Human Resource?

Q.2 Solve any Eight of the following. 16

- a) Write down International Trade Policy.
- b) Define Globalization.
- c) What is Tariffs?
- d) What is Mean by Franchising?
- e) What is mean by Software Architecture?
- f) What is mean by Joint Venture?
- g) What is mean by Project?
- h) What is mean by SAP Customer?
- i) Write down Economic Environment.

Q.3 A) Attempt any Two of the following. 10

- 1) Explain the Evaluation and Nature of International Business.
- 2) Explain the International law.
- 3) Write down objectives of WTO.

B) Shorts Note on "International Financial Institutions". 06

Q.4 A) Attempt any Two of the following. 08

- 1) Explain the advantages of MNC.
- 2) Explain the problem of International Business.
- 3) Explain the role of Economic Development.

B) Describe the International Business Approach. 08

Q.5 Attempt any Two of the following. 16

- a) Explain the advantages and disadvantage of Globalization.
- b) Explain the procedure of Export and Import.
- c) Describe the Financial Accounting and Controlling Modules.

Seat No.	
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B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS)
Examination: March/April-2023
Organizational Behavior (EN603)

Day & Date: Wednesday, 21-06-2023
 Time: 03:00 PM To 06:00 PM

Max. Marks: 80

- Instructions:** 1) All questions are compulsory.
 2) Figures to the right indicate full marks.
 3) Draw neat labeled diagrams wherever necessary.

Q.1 A) Choose the correct alternative and rewrite the sentences again. 10

- 1) OB is _____.
 - a) Art
 - b) Science
 - c) Both a & b
 - d) All the Above
- 2) A study of the culture and practices in different societies is called _____.
 - a) Personality
 - b) Anthropology
 - c) Perception
 - d) Attitudes
- 3) Forces affecting organizational behavior are _____.
 - a) People
 - b) Environment
 - c) Technology
 - d) All of the above
- 4) Organizational behavior focuses at 3 Levels _____.
 - a) Individuals, Organization, Society
 - b) Society, Organization, Nation
 - c) Employee, Employer, Management
 - d) Individual, Groups, Organization
- 5) OB Helps to understand behavior of human in _____.
 - a) Department only
 - b) Society only
 - c) work place only
 - d) work place and Society
- 6) _____ is a Study of Group Behavior.
 - a) Anthropology
 - b) Psychology
 - c) physiology
 - d) sociology
- 7) _____ learning theory.
 - a) Behaviorism & Humanism
 - b) Cognitive & Connectives
 - c) Constructivism
 - d) All the above
- 8) Stress management is about learning _____.
 - a) How to avoid the pressures of life
 - b) How to develop skills that would enhance our body's adjustment when we are subjected to the pressures of life.
 - c) Both 'a' & 'b' are true
 - d) None of the above

- 9) _____ are the basic sources of stress.
- a) The Environment b) Physiological Thoughts
 c) Social Stressors d) All of the above
- 10) _____ are the characteristics of Negative Stress.
- a) It causes anxiety
 b) It feels unpleasant
 c) It decreases performance
 d) All of the above

b) Answer in one sentence. / Fill in the blanks. 06

- 1) EDI Means _____.
- 2) Two factor theory propounded by _____.
- 3) Need theory propounded by _____.
- 4) Life Expectancy theory propounded by _____.
- 5) Individual Behavior includes _____.
- 6) Group Behavior Includes _____.

Q.2 Solve Any Eight of the following. 16

- a) E- Commerce
 b) Define Web Commerce
 c) Define Perception
 d) Define Attitude
 e) Define learning
 f) Define Stress
 g) Define Personality
 h) Define Group in Organization
 i) Define Motivation
 j) Define Electronic Cash.

Q.3 A) Answer any two of the following. 10

- 1) Explain two Factor Theory of Motivation.
 2) Explain types of Personality in detail.
 3) Define Intelligence and ability in individual.

B) Write Short note Stages of Group Development. 06

Q.4 A) Answer any two of the following. 08

- 1) Explain Maslow Need Theory in motivation.
 2) Explain Factors influencing process of perceptions.
 3) Explain Time Management in a job.

B) Explain sources of Stress in individual. 08

Q.5 Answer any two of the following. 16

- a) Explain Life Expectancy Theory in motivation.
 b) Explain Job Satisfaction in detail.
 c) Define OB. Explain nature & scope of Organizational behavior.

Seat No.	
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**B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS) Examination:
March/April-2023
Techniques in Industrial Chemistry (EN604)**

Day & Date: Thursday, 22-06-2023
Time: 03:00 PM To 06:00 PM

Max. Marks: 80

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 A) Choose the correct alternatives & rewrite the sentences again. 10

- 1) Principle used in column chromatography is based on _____.
a) Selective adsorption b) Absorption
c) Paper chromatogram d) Capillary action
- 2) The ratio of distance travelled by solute to distance travelled by solvent is called as _____ value.
a) Constant b) Molar
c) RF d) All of these
- 3) Stationary phase used in column chromatography is _____.
a) Liquid b) Gas
c) Water d) Solid
- 4) Aniline has high boiling point, high pressure at 100°c & is insoluble in water. Aniline therefore separated by _____.
a) Simple distillation b) Vaporization
c) Sublimation d) Steam distillation
- 5) Fractional distillation is different from distillation because of presence of _____.
a) Condenser b) Fractionating column
c) Conical flask d) Round bottom flask
- 6) There are _____ principles of green chemistry.
a) 12 b) 10
c) 14 d) 11
- 7) Water which contains Ca⁺² & Mg⁺² ions is called _____ water.
a) soft b) hard
c) neutral d) acidic
- 8) Zeolites are _____ exchangers.
a) Anionic b) Hydroscopic
c) Cationic d) Neutral
- 9) _____ colour is used to identify foam fire extinguisher.
a) blue b) red
c) green d) cream

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No.

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**B.Sc. (Entrepreneurship) (Semester - VI) (New) (CBCS)
Examination: March/April-2023
Genetic Engineering (EN605)**

Day & Date: Friday, 23-06-2023
Time: 03:00 PM To 06:00 PM

Max. Marks: 80

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 A) Multiple choice Questions. 10

- 1) The sequence of DNA from where replication starts is called _____.
 - a) Genetic sequence
 - b) selectable marker
 - c) origin of replication
 - d) Ter Sequence
- 2) Viruses which infect bacteria are called _____.
 - a) Bacteria
 - b) archaea
 - c) pUC
 - d) Bacteriophages
- 3) Protein can be visualized directly in gels _____.
 - a) Staining them with dye
 - b) Using electron microscope only
 - c) Measuring their molecular weight
 - d) None of these
- 4) In SDS PAGE _____.
 - a) Protein are denatured by the SDS
 - b) Protein have same charge-to-mass ratio
 - c) Smaller protein migrate more rapidly through the cell
 - d) All of the above
- 5) The first genomic libraries were cloned in _____.
 - a) Plasmid
 - b) Bacteria
 - c) Human
 - d) Plants
- 6) What is the process of binding of primer to the denatured strand is called?
 - a) Annealing
 - b) Renaturation
 - c) Denaturation
 - d) None of these
- 7) Which of the following is not an application of protein engineering?
 - a) Synthesis of chimeric proteins
 - b) Modification of natural proteins
 - c) Construction of novel protein
 - d) Multiplication of natural proteins
- 8) Bt Cotton is the _____.
 - a) Cloned plant
 - b) Hybrid plant
 - c) Transgenic plant
 - d) Mutated plant
- 9) Ti plasmid is found in _____.
 - a) E.Coli
 - b) Bacillus
 - c) Nitrosomonas
 - d) Agrobacterium tumifaciens

10) Which of the following technique is suitable for identification mRNA molecule in the sample?

- a) Western Blotting b) Southern Blotting
c) Northern blotting d) Eastern blotting

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

- 1) Ligation
2) DNA polymerase
3) SDS-PAGE long fome
4) Probes
5) Vectors
6) Plasmid

Q.2 Solve any Eight of the following. 16

- a) Write note on Synthetic oligonucleotide.
b) Write note on Antisense molecule.
c) Explain in brief Electroporation.
d) Write note on Liposomes.
e) Explain in brief Annealing.
f) Write note on p UC series.
g) Explain in brief genomic library.
h) Explain in brief DNA microarray.
i) Write note on Restriction enzyme.
j) Write note Insulin.

Q.3 A) Attempt Any Two of the Following. 10

- 1) Type II restriction enzyme in genetic engineering.
2) Write note on chemical method of DNA transformation process.
3) Write note on Shotgun method.

B) Short note/Solve. 06

Write short note on DNA polymarases with its types.

Q.4 A) Attempt any Two of the following. 08

- 1) Write Yeast Yip Vector.
2) Basics of PCR technology.
3) Microbial synthesis of Rubber.

B) Describe /Explain /Solve. 08

Explain Sanger's Method of DNA sequencing.

Q.5 Attempt any Two of the following. 16

- a) Describe in detail Restriction modification systems types, action and applications.
b) Molecular marker with detail DNA fingerprinting.
c) Agarose gel electrophoresis techniques, Applications.

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

- 1) Synthetic Media
- 2) Cell line
- 3) Suspension culture
- 4) Autoclave
- 5) Callus
- 6) Explant

Q.2 Any Eight of the following. 16

- a) Write note on Natural media.
- b) Write note on Cell synchronization.
- c) Explain in brief Surface Sterilization.
- d) Write note on Protoplast fusion.
- e) Explain in brief Genetic Variation.
- f) Write note on Balanced salt Solution.
- g) Explain in brief Anther culture.
- h) Explain in brief Inoculation Room.
- i) Write note on Laminar Air Flow.
- j) Explain in brief Cell Counting.

Q.3 A) Attempt Any Two of the following. 10

- 1) Characteristics of Animal cell Culture.
- 2) Methods of Protoplast fusion and its Application.
- 3) Concept of Haploid Production.

B) Short note/Solve. 06
Principle and application of Root tip culture.

Q.4 A) Attempt any Two of the following. 08

- 1) Write Sterilization of Media.
- 2) Write Chemical Blockade in cell Synchronization.
- 3) Explain Shoot Tip Culture.

B) Describe /Explain /Solve. 08
Explain components Serum and serum containing media.

Q.5 Attempt any Two of the following. 16

- a) Describe in detail Complete Media and Physicochemical properties of media.
- b) Draw the structure Leaf Culture and its Application.
- c) Explain the Preparation of Media and its aseptic techniques, Applications.