



SLR-E – 1

Seat No.	
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B.Sc. I (Semester – I) (Entrepreneurship) Examination, 2014
ENGLISH (Compulsory) (Old)
Text Book : Realms of Gold : An Anthology for Degree Classes

Day and Date: Tuesday, 3-6-2014

Max. Marks: 50

Time: 3.00 p.m. to 5.00 p.m.

N.B. : i) **All questions are compulsory.**
ii) **Figures to the right indicate full marks.**

1. Fill in the blanks by choosing the correct alternative given below them. **10**
- 1) The high priest of Rameswaram temple was _____
a) Prashant Lakshmana Sastry b) Pakshi Lakshmana Sastry
c) Prabhu Lakshmana Sastry d) None of the above
 - 2) Within the next twenty years _____
a) half of the world's population will be living in cities
b) all the world's population will be living in cities
c) one third of the world's population will be living in cities
d) none of the above
 - 3) Datta had learnt by long experience that his customers never came _____
a) correctly b) punctually c) timely d) none of the above
 - 4) Goldsmith presents the _____ as an amusing character in his poem.
a) lawyer b) schoolmaster
c) doctor d) writer
 - 5) Datta was a _____
a) painter b) frame-maker
c) goldsmith d) hunter
 - 6) Let me give you _____ umbrella.
a) a b) an c) the d) none
 - 7) _____ psychiatrist is a doctor who treats mental illness.
a) the b) an c) a d) none

P.T.O.



- 8) I wrote with _____ pencil.
 a) the b) an c) a d) none
- 9) The water was very cold _____ the child still jumped into the pool.
 a) and b) but c) so d) or
- 10) Lakshmi sends e-mails _____ all her friends now and then.
 a) in b) to c) at d) on

2. Write short answers of the following (**any five**) : **10**
- 1) Describe briefly the locality in which Kalam stayed with his parents.
 - 2) Mention 'two' qualities of Kalam's father.
 - 3) What is the forecast of Economic Commission for Africa ?
 - 4) Describe the character and habits of the frame maker in a few words.
 - 5) Describe the schoolmaster as he appeared to his students.
 - 6) How will the urban explosion affect the standard of life ?
 - 7) What was the intention of the customer in the story when he went to Datta ?
3. A) Write short answers of the following (**any two**) : **6**
- 1) Why does Colin Legum says that the urban growth is harmful (carcinogenic) ?
 - 2) What was the disaster that struck the photograph ? What was Datta's reaction to this disaster ?
 - 3) Describe the house in which Abdul Kalam lived during his childhood.
- B) Answer the following question in brief (**any two**) : **4**
- 1) Write in brief the theme of the poem "The Village Schoolmaster".
 - 2) Why are more and more people attracted to cities ?
 - 3) What did Kalam learn from his father about the power of prayer ?
4. Answer **any one** of the following : **10**
- 1) Describe how would you prepare a favourite dish. Make list of the ingredients required and describe the preparation in clear stages.
 - 2) Nita is on her way to her violin class. She meets Dr. Prakash, her father's boss, outside the music school. The two persons greet each other and exchange a few words before taking leave. Write a brief dialogue with appropriate expressions.
5. Write a letter of an application for the post of lecturer in the college. Give your details. **10**
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B.Sc. – I (Semester – II) (Entrepreneurship) Examination, 2014
ENGLISH COMPULSORY (Old)
Realms of Gold

Day and Date : Thursday, 8-5-2014

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

1. Fill in the blanks by choosing the correct alternative given below them : **10**

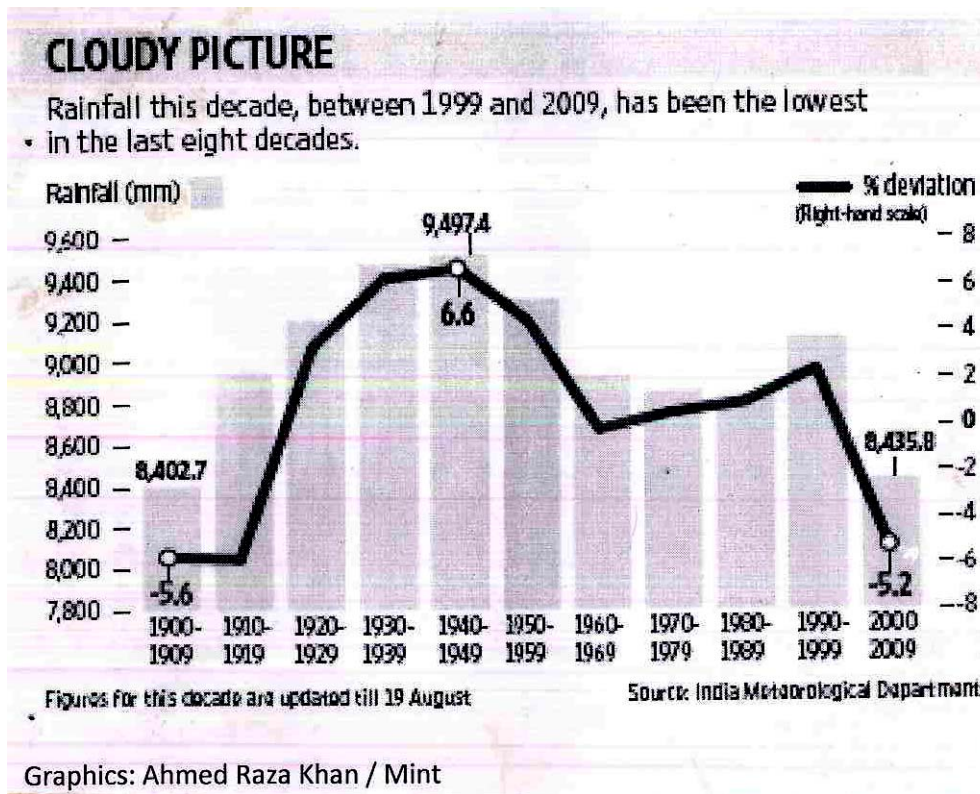
- i) Vivekananda presented Hinduism as
- a) the only true religion b) the best of all religions
c) the mother of all religions d) the only good religion
- ii) _____ is the planet nearest to the Sun.
- a) Earth b) Venus
c) Mercury d) Mars
- iii) The scientific point of view must come out of the
- a) Religion b) Library
c) Laboratory d) Scriptures
- iv) Ballad of the landlord is written by
- a) Langston Hughes b) Oliver Goldsmith
c) A. K. Ramanujan d) Miller Goldsmith
- v) The Champak tree is as old as
- a) uncle b) brother
c) sister d) mother
- vi) The Parliament of religion was opened on
- a) 12 Sept. 1893 b) 11 June 1893
c) 11 July 1893 d) 11 Sept. 1893
- vii) Rashmi _____ history since morning.
- a) is studying b) studies
c) studied d) will study



4. Answer **any one** of the following :

10

1) Read the following graph and transfer the information into paragraph :



Graphics : Ahmed Raza Khan/Mint.

2) Read the following paragraph carefully and make a note on it.

Animals living in modern zoos enjoy several advantages over animals in the wild; however, they must so suffer some disadvantages. One advantage of living in the zoo is that the animals are separated from their natural predators; they are protected and can, therefore, live without risk of being attacked. Another advantage is that they are regularly fed a special, well-balanced diet; thus, they do not have to hunt for food or suffer times when food is hard to find. On the other hand, zoo animals face several disadvantages. The most important disadvantage is that since they do not have to hunt for food or face their enemies, some animals became bored, discontented or even nervous. Another disadvantage is that zoo visitors can endanger their lives. Some animals can pick up airborne diseases from humans.

5. Draft out an advertisement of a newly launched mobile phone.

10



Seat No.	
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**B.Sc. (Entrepreneurship) (Semester – VI) Examination, 2014
ENVIRONMENTAL STUDIES (Comp.)**

Day and Date : Sunday, 27-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Multiple choice questions :

10

- I) Earth day is celebrated on _____.
A) 22nd Jan. B) 22nd Feb. C) 22nd March D) 22nd April
- II) 'Sahara' is an example of _____ ecosystem.
A) Desert B) Forest C) Marine D) Grassland
- III) Marine life is in danger due to _____ pollution.
A) Air B) Water C) Land D) Noise
- IV) _____ gas is responsible for ozone depletion.
A) CFC B) CO₂ C) SO₂ D) O₂
- V) In India Wildlife Protection Act passed in _____.
A) 1962 B) 1972 C) 1982 D) 1992
- VI) The main source of air pollution in India is _____.
A) Automobiles B) Industrialization
C) Forest fire D) Nuclear explosion
- VII) _____ percent of earth geographical area is under water.
A) 60% B) 61% C) 70% D) 71%
- VIII) Need for public awareness is important for the _____.
A) AIDS B) Malaria C) Filariasis D) Elephantiasis
- IX) The primary source of energy is _____.
A) Wind B) Sun C) Hydal energy D) Tidels
- X) Lion is _____ consumer in the ecosystem.
A) Primary B) Secondary C) Tertiary D) Heterotrophs

P.T.O.



2. Write short answers of the following (**any four** out of six) : **8**
- a) Definition of environment
 - b) Food chain of ecosystem
 - c) Causes of water pollution
 - d) Causes of generation of solid waste
 - e) Biodiversity in Western Ghat
 - f) Causes of population growth.
3. Write short notes of the following (**any four** out of six) : **12**
- a) Forest ecosystem
 - b) Uses of minerals
 - c) Nuclear Hazards
 - d) Remedies of water pollution
 - e) Effects of water pollution
 - f) Causes of noise pollution.
4. a) What is Forest resources ? Describe how forest resources can be conserved. **10**
- OR
- b) What is pollution ? Discuss the causes, effects and preventive measures of air pollution.
5. Define global warming. Explain the causes and effects of it. **10**
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B.Sc. – I (Sem. – I) (New) (Entrepreneurship) Examination, 2014
ENGLISH (Compulsory)
‘On Track’ English Skills for Success

Day and Date : Tuesday, 3-6-2014

Total Marks : 50

Time : 3.00 p.m. to 5.00 p.m.

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

1. Rewrite the following sentences by choosing the correct alternative : **10**
- 1) What did the policeman on the beat constantly do ?
 - a) twirl his stick
 - b) interrogate people on his beat
 - c) smoke a cigar
 - d) unlock doors
 - 2) The writer and Miss. Krishna
 - a) were at school together
 - b) met at an exhibition
 - c) met at a tea party
 - d) were neighbours
 - 3) When the writer invited her to stay with her for a while, Miss. Krishna agreed
 - a) reluctantly
 - b) shyly
 - c) readily
 - d) with little enthusiasm
 - 4) The word ‘intelligence’ is derived from the Latin word
 - a) intellegere
 - b) intellectual
 - c) intellect
 - d) none of these
 - 5) Where are the bangle sellers carrying their wares ?
 - a) to a married woman’s
 - b) to the house of a maiden woman
 - c) to a temple fair
 - d) to the streets
 - 6) An Irish Airman Foresees His Death is written by
 - a) W. B. Yeats
 - b) W. B. Keats
 - c) John Milton
 - d) Sarojini Naidu



4. Answer **any one** of the following questions : **10**
- 1) Write an essay on the impact of mobile phones on the lives of young people in the present day.
 - 2) Write paragraphs of **five** or **six** sentences on **each** of the following :
 - a) solar energy
 - b) my family.

5. Read the following passage and make notes of it. Use an appropriate title for your notes. **10**

There are different forms of environmental pollution. Air pollution is caused by the burning of coal and oil. It can damage the earth's vegetation and cause respiratory problems in humans. A second type of pollution is noise pollution. It is the result of the noise of aircraft and heavy traffic. Further, loud music is also a cause of noise pollution, which has been seen to affect people's hearing and give them severe headaches and high blood pressure. Another source of pollution is radioactivity, which occurs when there is a leak from a nuclear power station. Radioactivity is a deadly pollutant, which kills and causes irreparable harm to those exposed to it. Land and water pollution is caused by the careless disposal of huge quantities of rubbish, sewage and chemical wastes. Pollution of rivers and seas kills fishes and other marine life and also becomes the cause of water – borne diseases. Land pollution, on the otherhand, Poisons the soil, making the food grown in it unfit for consumption.



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**B.Sc. – I (Sem. – I) Examination, 2014
ENTREPRENEURSHIP (Paper – I) (New)
Entrepreneurship and the World of Business**

Day and Date : Wednesday, 4-6-2014

Max. Marks : 50

Time : 3.00 p.m. to 5.00 p.m.

1. Multiple Choice Questions.

10

1) Ethics is branch of

- a) Social values
- b) Philosophy
- c) Psychology
- d) None of these

2) Business mean

- a) Trading activity
- b) Managerial activity
- c) Economic activity
- d) All the above

3) Role of entrepreneur is

- a) Idea generation
- b) Systematic innovation
- c) Implementation of mechanical skill
- d) All the above

4) Need theory of motivation proposed by

- a) A. Maslow
- b) Herzberg
- c) Richard Cantilon
- d) Adam Smith

5) Entrepreneurship means

- a) Risk bearing
- b) Innovation
- c) Organisation
- d) All the above



- 6) According to Joseph Shumpeter entrepreneurs is
- a) Risk bearer
 - b) Innovator
 - c) Organiser
 - d) Manager
- 7) The entrepreneur is one of the most important input in the _____ development of country.
- a) Social
 - b) Economic
 - c) Cultural
 - d) None of these
- 8) Behavioural skill denotes
- a) Motivation
 - b) Team working
 - c) Self confidence
 - d) All the above
- 9) Entrepreneurial competencies delt with
- a) Self assessment
 - b) Competency recognition
 - c) Motivation
 - d) All the above
- 10) _____ runs as per Company Act 1956.
- a) Co-operative Society
 - b) Partnership Firm
 - c) Company
 - d) None of these

2. Answer **any five** of the following :

10

- 1) Define women entrepreneurship.
- 2) Describe partnership as form of business.
- 3) Explain objective of business.
- 4) Discuss difference between Private and Public Ltd. Company.
- 5) Define the term business ethics.
- 6) Explain the sole proprietorship form of business.



3. A) Answer **any two** of the following : **6**
- 1) Comment on scope of entrepreneurship in India.
 - 2) What are the benefits of business ethics ?
 - 3) Explain various support and financial assistance to women entrepreneurs in India.
- B) Write note on factors responsible for emergence of entrepreneurship. **4**
4. Answer **any two** of the following : **10**
- 1) Difference between entrepreneur and entrepreneurship.
 - 2) What are the characteristics of business ?
 - 3) Write note on multinational and transnational company.
5. Answer **any two** of the following : **10**
- 1) What is motivation and explain the factors that motivate entrepreneurs ?
 - 2) Define entrepreneurship, explain in detail various types of entrepreneur.
 - 3) Explain in brief characteristic of entrepreneurs.
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B.Sc. – I (Sem. – I) (Entrepreneurship) Examination, 2014
INDUSTRIAL CHEMISTRY (New)
Fundamental of Organic Chemistry (Paper – II)

Day and Date : Saturday, 7-6-2014

Max.Marks : 50

Time : 3.00 p.m. to 5.00 p.m.

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

2) **Figures to the right indicate full marks.**

1. Rewrite the following sentences by selecting correct answer from given alternatives :

10

- 1) When acetylene is passed over red hot tube _____ product is formed.
 - a) Cyclohexane
 - b) Ethane
 - c) n-hexane
 - d) Benzene
- 2) In kolbe synthesis to obtain butane _____ is electrolysed.
 - a) Sodium acetate
 - b) Sodium propionate
 - c) Potassium acetate
 - d) Sodium butanoate
- 3) Carbon and hydrogen is estimated by _____ method.
 - a) Carius
 - b) Kjeldahl's
 - c) Liebig's
 - d) None of these
- 4) 1, 3 – butadiene is the example of _____ diene.
 - a) Conjugated
 - b) Isolated
 - c) Cumulated
 - d) Alka
- 5) In nitration of benzene _____ is used as electrophile.
 - a) NO_2^{\oplus}
 - b) NO_2^{\ominus}
 - c) HNO_3
 - d) NO_3^{\oplus}
- 6) _____ method is used to determine molecular weight.
 - a) Carius
 - b) Platinichloride
 - c) Liebig's
 - d) Kjeldahl's



4. Answer **any two** of the following : **10**

- 1) Write any two methods for the preparation of alkanes.
- 2) What is meant by nitration ? Give its mechanism.
- 3) With the help of Kjeldahl's method how will you detect nitrogen in organic compound.

5. Answer **any two** of the following : **10**

- 1) Explain hydroboration reaction of alkene.
 - 2) How will you determine empirical formula of organic compound ?
 - 3) Explain Witt's theory for colour and chemical constitution.
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3. A) Answer the following questions in brief (**any two**) : **6**
- i) Write the scope of industrial microbiology.
 - ii) Describe the primary screening.
 - iii) Describe the preservation of stock cultures by Lyophilization.
- B) Describe in brief sterilization of fermentation media and fermentor. **4**
4. Write short notes on **any two** : **10**
- i) Typical fermentor with diagram.
 - ii) Secondary screening.
 - iii) Factors affecting on fermentation process.
5. Describe in detail **any one** of the following : **10**
- i) Fermentation media
 - ii) Preservation of stock cultures.
-



3. A) Answer (**any one**) from the following : 5
- i) Write 4 advantages of Mass Production.
 - ii) What is R and D Concept of Production ?
- B) Answer (**any one**) from the following : 5
- i) Write 4 advantages of batch production.
 - ii) Write in brief the scope of batch production.
4. Answer (**any 2**) from the following : 10
- i) What is fixed combination layout ?
 - ii) State the objectives of Production Planning and Control.
 - iii) Write the importance of TQM.
5. Answer (**any 2**) from the following : 10
- i) What is inventory control ?
 - ii) State inventory control techniques.
 - iii) What is the procedure of industrial purchasing ?
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**B.Sc. (Entrepreneurship) (Semester – IV) Examination, 2014
COMPUTER SCIENCE (Paper – VIII)**

Day and Date : Friday, 25-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Multiple choice questions : 10

- 1) _____ operating system is used in second generation.
 - a) Batch operating system
 - b) Time sharing
 - c) Multiprogramming
 - d) Multitasking
- 2) Secondary storage of a computer system is also known as _____.
 - a) Main memory
 - b) Volatile memory
 - c) a) and b)
 - d) Auxiliary memory
- 3) 1 MB is about _____ bytes.
 - a) 10^3 bytes
 - b) 10^6 bytes
 - c) 10^4 bytes
 - d) 10^9 bytes
- 4) The time required to spin the specified sector under the read/write head is called _____.
 - a) Latency
 - b) Rotational delay time
 - c) a) and b)
 - d) Seek time
- 5) _____ secondary device uses laser beam technology to read and write data.
 - a) Optical disk
 - b) Floppy disk
 - c) Hard disk
 - d) None



- 6) A language that allows use of letters and symbols instead of numbers is called _____
- a) Assembly language b) Symbolic language
c) Machine language d) a) and b)
- 7) _____ is a translator program that translates high level language into machine language statement by statement.
- a) Assembler b) Compiler
c) Interpreter d) None
- 8) _____ is an integrated set of instructions or programs that controls the resources and operations of computer system.
- a) System b) Operating system
c) Memory d) None
- 9) FTP stands for _____
- a) File Transmission Process
b) File Transfer Protocol
c) File Transfer Procedure
d) None
- 10) URL stands for _____
- a) Uniform Resource Locator
b) Universal Resource Locator
c) Uniform Resource Location
d) None

2. Answer **any five** of the following :

10

- 1) Define computer sysc and enlist its types.
- 2) Note on expansion slot.
- 3) Give function of control unit.
- 4) Define compiler and interpreter.
- 5) Define system software and give examples of system software.
- 6) Define internet.



3. A) Answer **any two** of the following : **6**
- 1) Explain any two generations of computer system.
 - 2) Explain characteristics of computer system.
 - 3) Note on Telnet Service.
- B) Explain types of memory chips. **4**
4. Answer **any two** of the following : **10**
- 1) What is operating system ? Explain functions of operating system.
 - 2) Note on FTP.
 - 3) Explain serial and parallel port.
5. Answer **any two** of the following : **10**
- 1) Explain block diagram of computer and explain each block in detail.
 - 2) Explain magnetic disk and its types.
 - 3) Give in detail uses of internet.
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B.Sc. (Part – II) (Semester – IV) Entrepreneurship Examination, 2014
INDUSTRIAL CHEMISTRY
Paper – VII : Techniques in Industrial Chemistry

Day and Date : Saturday, 26-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Choose the most correct alternative from among those given below : **10**
- 1) Spectroscopic methods are advantageous because they are _____
 - a) Useful for the determination of unknown structures
 - b) Rapid methods for analysis
 - c) Sensitive, accurate and highly reliable methods
 - d) All above
 - 2) _____ is a method of elemental analysis.
 - a) AAS
 - b) Chromatography
 - c) Electrophoresis
 - d) None of these
 - 3) In flame photometeres, the detectors used are _____
 - a) Thermopiles
 - b) Photomultipliers
 - c) Tungsten tubes
 - d) Colorimeteres
 - 4) X-ray diffraction technique uses _____ law for crystallographic analysis.
 - a) Lambert's
 - b) Beer's
 - c) Bragg's
 - d) Partition
 - 5) _____ is the cross-linked dextran used as popular gel for separation of proteins and other biomolecules.
 - a) Sephadex
 - b) Quartz
 - c) Agarose
 - d) Starch



- 6) Gel permeation chromatography can be performed by _____ chromatography.
- a) Paper
 - b) Gas
 - c) Ion-exchange
 - d) Column or thin layer
- 7) _____ method is used for separation and characterisation of proteins based on electrophoresis and reaction with antibodies.
- a) Gel filtration chromatography
 - b) Immunoelectrophoresis
 - c) SDS-PAGE
 - d) AAS
- 8) To determine crystal structure of material _____ technique is used.
- a) Chromatography
 - b) SDS-PAGE
 - c) Photometry
 - d) X-ray diffraction
- 9) In SDS-PAGE _____ is used for determination of molecular weights of proteins.
- a) Polyacrylamide
 - b) Agarose
 - c) CSDS
 - d) Starch
- 10) The sensitivity in AAS is generally expressed in terms of _____ for 1% absorbance.
- a) $\mu\text{g/ml}$
 - b) mg/ml
 - c) g/ml
 - d) g/dm^3

2. Answer **any five** of the following :

10

- i) Explain the term absorption spectroscopy.
- ii) What are nebulizers ?
- iii) State applications of X-ray diffraction methods to complexes.
- iv) Explain the term chromatography.
- v) Write applications of gel chromatography.
- vi) Write the types of electrophoresis.



3. A) Answer **any two** of the following : **6**
- i) Explain the function of photomultiplier tube used in AAS.
 - ii) What is elastic scattering ?
 - iii) Why should electrophoresis be done in solutions of low salt concentrations ?
- B) Explain the process of SDS-PAGE. **4**
4. Answer **any two** of the following : **10**
- i) Give a brief account of mirrors and slits used in flame photometry.
 - ii) Discuss the technique of gel filtration chromatography.
 - iii) Explain the process of high resolution X-ray diffraction method.
5. Answer **any two** of the following : **10**
- i) Explain the functions of the components involved in atomic absorption spectrophotometer.
 - ii) Write a note on immunoelectrophoresis.
 - iii) Explain the process of X-ray diffraction used in crystallographic analysis.
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B.Sc. – II (Sem. – IV) (Entrepreneurship) Examination, 2014
INDUSTRIAL CHEMISTRY
Paper – VIII : Biosensors and Techniques in Enzyme Purification

Day and Date : Monday, 28-4-2014

Max. Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

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

1. Choose the correct alternative and rewrite the sentence again. **10**
- I) _____ electrophoresis is the combination of chromatographic technique and electrophoresis.
a) Rotating gel b) Field gel c) PAGE d) Two dimensional
- II) Speed of centrifuge is measured in _____
a) RPM b) RCF c) MS d) MP
- III) In biosensor, sensor is _____
a) enzyme
b) antibodies
c) antigen
d) physicochemical transducer
- IV) _____ developed a DNA sequencing method based on chemical modification of DNA.
a) Walter Gilber and Allan Maxam
b) Sanger
c) Roger
d) Franklin
- V) Sedimentation coefficient is measured in _____ unit.
a) Swedberg b) Distribution
c) Partition d) Bench



3. A) Answer **any two** of the following : **6**
- 1) Applications of biosensors.
 - 2) Enzymatic method of sequencing.
 - 3) Zonal centrifugation.
- B) Explain in brief “Agarose gel electrophoresis”. **4**
4. Answer **any two** of the following : **10**
- 1) Describe in detail Maxam-Gilbert method of DNA sequencing.
 - 2) Write in detail on Density Gradient Centrifugation.
 - 3) Explain in detail different types of Biosensors.
5. Answer **any two** of the following : **10**
- 1) Describe in detail Enzyme purification techniques.
 - 2) Explain in detail SDS-PAGE.
 - 3) Briefly describe disadvantages of Biosensors.
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**B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2014
MICROBIOLOGY AND BIOTECHNOLOGY
Paper – VIII : Food and Dairy Technology**

Day and Date : Wednesday, 30-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Rewrite the sentences by selecting correct answers from given alternative : **10**
- i) Bacteria growing at low temperature are called _____
 - a) Thermophilic
 - b) Mesophilic
 - c) Thermoduric
 - d) Psychrophilic
 - ii) _____ is an example of perishable food.
 - a) Meat
 - b) Sugar
 - c) Potato
 - d) Onion
 - iii) _____ sugar is present in milk.
 - a) Glucose
 - b) Sucrose
 - c) Latose
 - d) Fructose
 - iv) _____ is an example of food poisoning.
 - a) Salmonellosis
 - b) Botulism
 - c) Shigellosis
 - d) Amoebiasis
 - v) _____ test is used for determination of efficiency of pasteurisation of milk.
 - a) MBRT
 - b) Phosphatase
 - c) MPN
 - d) BOD
 - vi) Roquefort cheese is an example of _____ cheese.
 - a) Semihard
 - b) Hard
 - c) Soft
 - d) Liquid



- 7) The quarrel _____ so much that I lost the peace of my mind.
a) Ruffled by features b) Broke me down
c) Drew the line d) Stumbled block
- 8) I wanted to be a collector but now _____ about it.
a) Have no wish b) Have second thoughts
c) Have a doubt d) None
- 9) Reading is her _____ and butter.
a) Wheat b) Bread c) Milk d) Cake
- 10) T.C.S. is _____ Company.
a) Complicated b) Many nations
c) Multi-national d) Regional

2. Answer **any five** of the following questions briefly : **10**
- 1) Write a note on six pillars of self-esteem.
 - 2) What are the advantages of self-esteem ?
 - 3) What is scientific point of view ?
 - 4) What is the difference between scientist and judge ?
 - 5) What is the end of the story 'Sparrows' ?
 - 6) What made Rahim Khan ill ?
3. A) Answer **any two** of the following questions briefly : **6**
- 1) How is the condition of sick children ?
 - 2) What is the central theme of the poem 'Refugee Mother and Child' ?
 - 3) Describe in brief the daffodils effect on poet's mind.
- B) Answer **any two** of the following : **4**
- 1) What do you do when work pressure suddenly increases ?
 - 2) How you will adapt any critical situation ?
 - 3) State the ways by which you manage your time better.



4. A) Write a description of a person who sat opposite you on a train journey. Remember to use the words to convey character, thoughts, mood, attitude of the person. **10**

OR

- B) Write a description of a famous T.V. Actor you met at the function. Remember to use the words to convey the character, thoughts, mood, attitude of the actor seemed to be.

5. Read the passage below and write one-third summary of it. **10**

Mr. Spectator is a learned person exposed to foreign culture and ways of thinking because of his travels abroad. His mind stored with wit, humour and knowledge of these civilizations and their ways, was a store house of ideas. Added to this, wisdom was his intimate acquaintance with ancient and modern books in different languages. His observing eye makes him compare and contrast different cultures and civilizations for their manners, mores, customs, traditions and peculiarities.

In the words of Addison, the spectator had made himself a speculative statesman, soldier, merchant or artisan without ever meddling with any practical part in life. His classical ideal suggests the value of ancient wisdom for self improvement. The middle class culture and character gets itself exposed and defined in authentic way in the essays of Addison.



Seat No.	
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B.Sc. – III (Semester – VI) (Entrepreneurship) Examination, 2014
ENTREPRENEURSHIP (Paper – X)
International Business

Day and Date : Thursday, 10-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

1. Choose the correct answer from given alternative : **10**
- i) FDI stands for _____
 - a) Fast Development India
 - b) Foreign Direct Investment
 - c) Foreign Development India
 - d) Fast Direct Investment
 - ii) Capitalistic communistic and mixed are the type of
 - a) Economic System
 - b) Social System
 - c) Cultural Attitudes
 - d) Political System
 - iii) The simplest way to enter a foreign market is through _____
 - a) Direct Investment
 - b) Joint Venturing
 - c) Contract manufacturing
 - d) Exporting
 - iv) ISO stands for _____
 - a) International State Organization
 - b) International Swiss Organization
 - c) International Select Organization
 - d) None of the above
 - v) MNC stands for _____
 - a) Multinational Company
 - b) Multinational Corporation
 - c) Multinational Culture
 - d) Mutual North Committee



3. A) Answer **any two** of the following : **6**
- i) Concept of E-commerce
 - ii) Define Union.
 - iii) Define International Business.
- B) Describe in short sales and distribution. **4**
4. Answer **any two** of the following : **10**
- i) Explain the benefits of the acquisition.
 - ii) Write down International business approaches.
 - iii) What are the role of transportation in global distribution ?
5. Answer **any two** of the following : **10**
- i) Explain the advantages of Globalization.
 - ii) Difference between Traditional commerce and E-commerce.
 - iii) What are the difference between Domestic business and International Business ?
-



Seat No.	
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B.Sc. – III (Semester – VI) (Entrepreneurship) Examination, 2014
ENTREPRENEURSHIP (Paper – X)
Organizational Behavior

Day and Date : Friday, 11-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

1. Choose the correct answer from given alternative. 10
- i) _____ need improves the confidence level of an employee when satisfied.
a) Social b) Safety c) Basic d) Esteem
- ii) Every individual is _____ by their personality.
a) Intellectual b) Specific
c) Unique d) Systematic
- iii) Scope of OB does not include.
a) Leadership b) Perception
c) Job design d) Technology
- iv) “Might is Right” is the motto of
a) Autocratic model b) Custodial model
c) Supportive model d) Feasible model
- v) What is the key word in understanding organization structure ?
a) Control b) Change c) Process d) Delegation
- vi) E-Commerce provide _____ customer service.
a) Worse b) Better c) Same d) All of above
- vii) _____ does not required printed invoice.
a) EDI b) EDD c) EID d) All of above
- viii) _____ focuse on how to set goals for people to reach.
a) Equity theory b) Expectancy theory
c) Goal attain theory d) Goal setting theory



Seat No.	
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B.Sc. – III (Semester – VI) Entrepreneurship Examination, 2014
INDUSTRIAL CHEMISTRY
Techniques in Industrial Chemistry (Paper – X)

Day and Date : Saturday, 12-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

Instructions : 1) **All questions are compulsory.**
2) **Draw neat diagram and give equations wherever necessary.**

1. Select the most correct alternative from those given below and rewrite the sentence :

10

- 1) In paper chromatography, cellulose fibres act as _____
 - a) Stationary phase
 - b) Mobile phase
 - c) Support
 - d) Detecting agent
- 2) The reactions catalyzed by _____ are biocatalytic reactions.
 - a) Alumina
 - b) Enzyme
 - c) Sucrose
 - d) Ni-catalyst
- 3) In chromium plating _____ is used as anode.
 - a) Cadmium
 - b) Silver
 - c) Zinc
 - d) Lead
- 4) _____ is the process which gives the coating of the oxide film on the surface of Al and its alloys.
 - a) Anodising
 - b) Electrolysis
 - c) Electrophoresis
 - d) All of these
- 5) _____ is an example of type fire A.
 - a) Wood
 - b) Electrical source
 - c) Oils
 - d) None of these
- 6) In column chromatography, the eluent acts as _____ phase.
 - a) Stationary
 - b) Support
 - c) Mobile
 - d) None of these
- 7) Zeolites are _____ substances.
 - a) Crystalline
 - b) Amorphous
 - c) Both of these
 - d) None of these



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B.Sc. – III (Entrepreneurship) (Sem. – VI) Examination, 2014
INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY (Paper – X)
Genetic Engineering and Technique in Plant Tissue Culture

Day and Date : Tuesday, 22-4-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Rewrite the following sentences by using correct alternatives. 10
- 1) A population of cell that reproduce themselves is called as _____
a) Hybrid b) Cybrid c) Clones d) Interbreeds
 - 2) Northern Blotting technique is used for _____ molecules.
a) RNA b) DNA c) Protein d) Protein and DNA
 - 3) c-DNA library is prepared from _____
a) Sn-RNA b) t-RNA c) r-RNA d) m-RNA
 - 4) _____ media is used for PTC.
a) Nutrient media b) M-S media
c) MacConkey's media d) Selective media
 - 5) $G \downarrow AATTC$ is the recognition site for
 $CTTAA \uparrow G$ _____
a) BamHI b) HaeIII c) HindIII d) EcoRI
 - 6) Method of propagating plants by culturing very small parts of explant called as _____
a) Propagation b) Micropropagation
c) Macropropagation d) Colonization
 - 7) _____ enzyme is used in PCR.
a) Taq polymerase b) Helicase
c) Steward d) Haberlandt



- 6) Mitosis take place in _____
- a) Reproductive cell b) Somatic cell
c) Germ cell d) Bacterial cell
- 7) DNA synthesis takes place in _____
- a) G₁ phase b) G₂ phase
c) S phase d) M phase
- 8) The chromosome having centromere at one end of chromosome is called _____ chromosome.
- a) Metacentric b) Sub metacentric
c) Telocentric d) Acrocentric
- 9) t-RNA is also known as
- a) Soluble RNA b) Ribosomal RNA
c) Template RNA d) None of the above
- 10) The ratio of purine to pyrimidine is
- a) 1 : 2 b) 2 : 1
c) 1 : 1 d) 4 : 1

2. Answer **any five** of the following :

10

- 1) Draw neat labelled diagram of chloroplast.
- 2) What is chromosome and give its types ?
- 3) Features of meiosis.
- 4) What is endoplasmic reticulum ?
- 5) Define simple diffusion.
- 6) Enlist phases involve in mitosis.



3. A) Answer **any two** of the following : **6**
- 1) Draw neat and labelled diagram of animal cell.
 - 2) Describe phagocytosis.
 - 3) Describe lysosome.
- B) Describe double helical structure of DNA. **4**
4. Answer **any two** of the following : **10**
- 1) Describe with diagram prokaryotic cell.
 - 2) Describe structure and functions of nucleus.
 - 3) Explain in detail cell theory.
5. Answer **any one** of the following : **10**
- 1) Explain structure, composition and functions of cell wall.
 - 2) Explain in detail morphology and functions of chromosome.
-



Seat No.	
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**B.Sc. I (Semester – I) Examination, 2014
ENTREPRENEURSHIP (Paper – II) (New)
Economics for Manager and Managerial Accounting**

Day and Date : Thursday, 5-6-2014

Max. Marks : 50

Time : 3.00 p.m. to 5.00 p.m.

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

1. Choose correct answers from the given alternatives. **10**
- 1) Closing stock is recorded on _____ side of _____
- a) Credit and P & L A/c b) Credit and Trading A/c
c) Asset and Balance sheet d) Both (b) and (c)
- 2) Goodwill is _____
- a) Tangible asset b) Intangible asset
c) Both (a) and (b) d) None of these
- 3) Depreciate is charge on _____.
- a) Fixed asset b) Current asset
c) Both (a) and (b) d) None of these
- 4) Debtors are recorded on _____ side of Balance sheet.
- a) Liabilities b) Assets
c) Fixed asset d) All of these
- 5) Cash account is _____ account.
- a) Real b) Personal c) Impersonal d) Nominal

P.T.O.



4. Answer **any two** of the following :

10

1) Prepare Trading Account and calculate Gross Profit/Loss from the given information.

a) Opening stock	– Rs. 20,000
b) Purchases	– Rs. 80,000
c) Sales	– Rs. 1,00,000
d) Sales return	– Rs. 5,000
e) Wages	– Rs. 5,000
f) Freight	– Rs. 5,000
g) Advertisement	– Rs. 10,000
h) Closing stock	– Rs. 50,000
i) Carriage inward	– Rs. 5,000

2) Define managerial economics. Explain nature and scope of managerial economics.

3) Explain in detail internal and external sources of Finance.

5. Answer **any one** of the following :

10

1) Explain in detail nature and scope of accounting.

2) Prepare Balance sheet from given information :

a) Land and Building	Rs. 20,000
b) Goodwill	Rs. 20,000
c) Cash in hand	Rs. 20,000
d) Machinery	Rs. 20,000
e) Capital	Rs. 50,000
f) Drawings	Rs. 10,000
g) Secured loan	Rs. 20,000
h) Unsecured loan	Rs. 20,000
i) Sundry creditors	Rs. 20,000
j) Sundry debtors	Rs. 20,000



Seat No.	
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B.Sc. I (Semester – I) Examination, 2014
ENTREPRENEURSHIP
Industrial Microbiology – I (New)
Fundamentals of Microbiology

Day and Date : Monday, 9-6-2014
Time : 3.00 p.m. to 5.00 p.m.

Max. Marks : 50

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

1. Rewrite the sentences by selecting correct answer from the given alternatives. **10**
- 1) Penicillin antibiotic first discovered by
 - a) John Tyndall
 - b) Robert Koch
 - c) Alexander Flemming
 - d) Louis Pasteur
 - 2) Motility of bacteria due to
 - a) Capsule
 - b) Pilli
 - c) Flagella
 - d) Cell wall
 - 3) In prokaryotes ribosomes are _____ types.
 - a) 80 S
 - b) 70 S
 - c) 60 S
 - d) 50 S
 - 4) Cell wall of fungi contain
 - a) Chitin or cellulose or both
 - b) Chitin or starch
 - c) Carbohydrate or lipid
 - d) Mucopolysaccharide or cellulose
 - 5) Archaeobacteria are also known as
 - a) Suicide bags
 - b) False bacteria
 - c) Extremophiles
 - d) All of above
 - 6) The smallest bacteria is
 - a) Eubacteria
 - b) Mycoplasma
 - c) Archaeobacteria
 - d) None of above
 - 7) Alcohol fermentation is carried out by
 - a) E. Coli
 - b) B. Subtilis
 - c) B. Thuringensis
 - d) S. Cerevisiac
 - 8) Fuid Mosaic model are proposed by
 - a) Watson & Crick
 - b) Koch & Pasteur
 - c) Singer & Nicolson
 - d) Redi & Needham



Seat No.	
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B.Sc. – I (Semester – I) (Entrepreneurship) Examination, 2014
INDUSTRIAL MICROBIOLOGY (New)
Paper – II : Basic Techniques in Microbiology

Day and Date : Tuesday, 10-6-2014
Time : 3.00 p.m. to 5.00 p.m.

Max. Marks : 50

N.B. : 1) **All questions are compulsory.**
2) **Figures to the right indicates full marks.**

1. Rewrite the following sentences by selecting correct answers from given alternatives.

10

- 1) _____ is used for maintaining osmotic balance in culture media.
 - a) Peptone
 - b) Meat extract
 - c) NaCl
 - d) Agar
- 2) Bacteria are observed under _____ objective lens.
 - a) 10 X
 - b) 40 X
 - c) 45 X
 - d) 100 X
- 3) _____ is used as decoloriser in Gram staining.
 - a) Alcohol
 - b) Iodine
 - c) Basic fuchsin
 - d) Crystal violet
- 4) _____ is selective medium for coliforms.
 - a) Nutrient agar
 - b) MacConkey's Agar
 - c) Blood agar
 - d) Milk agar
- 5) _____ is an example of broth media.
 - a) Nutrient agar
 - b) Milk agar
 - c) Blood agar
 - d) Peptone water
- 6) Embryonated egg is used for cultivation of _____.
 - a) Viruses
 - b) Bacteria
 - c) Fungi
 - d) Protozoa
- 7) _____ is used for generation of electrons in electron Microscope.
 - a) Mirror
 - b) Lamp
 - c) Jungsten Filament
 - d) Condenser

P.T.O.



Seat No.	
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B.Sc. I (Semester – I) Examination, 2014
ENTREPRENEURSHIP (New)
Industrial Biotechnology – II (Animal and Plant Physiology)

Day and Date : Thursday, 12-6-2014
Time : 3.00 p.m. to 5.00 p.m.

Max. Marks : 50

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

1. Rewrite the following sentences by choosing correct alternative : 10

- 1) The reaction centre of photosystem – I is designated as
a) P 700 b) P 500 c) P 450 d) P 660
- 2) The light reactions of photosynthesis occurs in
a) Stroma b) Granna c) Cytoplasm d) Nucleus
- 3) Non-cyclic photophosphorylation yields
a) ATP b) NADPH₂ c) Both a and b d) None of these
- 4) Mast cell secretes
a) Histamine b) Heparin c) Serotonin d) All of the above
- 5) The white fibrous tissue occurs in
a) Ligaments b) Tendon c) Cartilage d) Bone
- 6) Striated muscles are found in
a) Gall bladder b) Wall of bronchi c) Leg muscles d) Lungs
- 7) The enamel consists of _____ of inorganic salts.
a) 96 % b) 97 % c) 98 % d) 95 %
- 8) The weight of pituitary gland is _____ gm.
a) 1.0 b) 0.5 c) 1.5 d) 2.5

P.T.O.



9) Sertoli cells secrete _____ hormone.
a) Glucagon b) GH c) Testosterone d) All of the above

10) A group of cell having similar origin, more or less similar size and shape and similar function is called as
a) Prokaryotic cells b) Eukaryotic cells
c) Nerve cells d) Tissue

2. Answer **any five** of the following : **10**

- 1) Give difference between light and dark reaction.
- 2) Define test buds.
- 3) What are multicellular glands ?
- 4) What is micropropagation ?
- 5) What is adipose tissue ?
- 6) Give types of cartilage.

3. A) Answer **any two** of the following : **6**

- 1) What is emersion enhancement effect ?
- 2) Describe compound epithelium.
- 3) Give the applications of animal tissue culture.

B) Explain in detail histology of stomach. **4**

4. Answer **any two** of the following : **10**

- 1) Explain Electron transfer pathway.
- 2) Describe structure, origin and function of nervous tissue.
- 3) Describe histology of pancreas.

5. Answer **any one** of the following : **10**

- 1) Explain in detail Calvin cycle.
 - 2) Explain structure, origin and functions of connective tissue.
-



Seat No.	
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B.Sc. – I (Sem. – II) (Entrepreneurship) Examination, 2014
ENGLISH COMPULSORY (New)
On track : English Skills for Success

Day and Date : Thursday, 8-5-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Rewrite the following sentences choosing the correct alternative. 10

- i) Dr. Kalam had successfully tested _____ while he was in France.
a) PSLV b) SLV-3 c) V-2 d) Jupiter
- ii) Maharaja of Khetri had given _____ to Vivekananda for his journey to America.
a) money
b) gold coins
c) a beautiful robe
d) copy of the Bhagwad Gita.
- iii) The Parliament of Religions was to be held in _____
a) America b) Singapore c) Canada d) Japan
- iv) After our incredible scientific progress _____ is the greatest threat to humanity.
a) natural calamities b) diseases
c) nuclear weapons d) the human being himself/herself
- v) The odd word on the following set of words is _____ in the meaning.
a) slay b) murder c) help d) kill
- vi) 'The bubble house' in the poem 'Full Moon' refers to the _____
a) moon b) earth c) planet d) nature



- vii) The lioness is feeding _____ cub.
a) her b) its c) it d) herself
- viii) Maharastra is one of the _____ states in the country.
a) large b) larger c) more larger d) largest
- ix) Mohan found the _____ in his soup yesterday.
a) hare b) here c) hear d) hair
- x) The antonym for the word 'barren' is _____.
a) infertile b) heath c) fertile d) dull

2. Answer **any five** of the following questions in **two** and **three** sentences **each**. **10**

- i) Who was Wernher Von Braun and what was his contribution to science and to the world ?
- ii) Summarise the points of advice that Von Braun gave Dr. Kalam.
- iii) What were the points about the new culture that struck Vivekananda on his arrival in America ?
- iv) Who were the other Indians present at the parliament of Religions ?
- v) What do you understand by human rights ?
- vi) Why does the author declare that human rights cannot function in a vacuum ?

3. A) Answer **any two** of the following questions in about **50** words **each**. **6**

- i) What is the origin or background of the poem 'Brahma' ?
- ii) How was the Moon's light made holy in Gethsemane ?
- iii) Examine the theme of innocence versus experience in the poem 'Full Moon'.

B) Answer briefly **any two** of the following questions. **4**

- i) What is meant by BCC in e-mail ? Explain.
- ii) What precautions should be taken while sending the e-mails ?
- iii) Write out any two e-mail ID's of your friends.



4. You are Veena Raut the secretary of the 'Student's Union' in 'Doon College, Mumbai. The college is conducting 'Blood Donation Camp' on the occasion of Swami Vivekananda's birth anniversary. Draft notice and agenda informing the members about the date, time and venue of the meeting. 10

OR

Write out the minutes of the 'meeting of Marathi Cultural Association' Mumbai.

Date : 15 July 2013 Time : 10 a.m.

Venue : Kala Bhavan, Mumbai

Agenda

- 10.00 a.m. – Call to order
10.15 a.m. – Presentation of the minutes of the previous meeting for approval by the board.
10.30 a.m. – Report of the secretary to the directors of board.
11.00 a.m. – Report of the treasurer
12.00 p.m. – Planning the annual 'Navaratri Festival'.
1.30 p.m. – Adjournment.

5. You wish to apply for the post of Assistant Professor in the subject of Chemistry. Prepare the C.V. for the post with suitable biographical details. 10
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Seat No.	
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B.Sc. – I (Semester – II) (Entrepreneurship) Examination, 2014
ENGLISH COMPULSORY (New)
On Track : English Skills for Success

Day and Date : Sunday, 18-5-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

N. B. : i) **All questions are compulsory.**
ii) **Figures to the right indicate full marks.**

1. Rewrite the following sentences by choosing the correct alternative : 10
- i) Dr. A.P.J. Abdul Kalam was entrusted the responsibility of _____ Von Braun.
a) Dropping b) Ticking up c) Inviting d) Introducing
- ii) Wernher Von Braun is known for his _____ missiles.
a) V – 2 b) V – 1 c) V – 3 d) V – 4
- iii) _____ had taken Swami Vivekananda's ticket to his great journey to the West.
a) Maharaja of Khetri b) Maharaja of Delhi
c) J. H. Wright d) His friends
- iv) _____ was sitting at the centre of the first session of the parliament.
a) Swami Vivekanand b) Nagarkar
c) Dharpala d) Cardinal Gibbons
- v) The death of the people at the hands of their own governments is an example of _____.
a) Violations of human rights b) Violation of the laws
c) Violation of values d) Violation of customs
- vi) Nani A. Palkhivala sums up human rights as _____.
a) Equality b) Liberty c) Justice d) Fraternity
- vii) The red slayer in the poem 'Brahma' is referred to _____.
a) Soldier b) The slain c) Heaven d) Brahmin
- viii) Who challenges the sacred identity of the Moon ?
a) Astronomers b) Rocket expert c) Mothers d) The children



- ix) My friend is fond _____ playing cricket.
 a) off b) of c) in d) by
- x) Mother is a _____ singer than me.
 a) good b) better c) best d) worst

2. Answer **any five** of the following questions in **two** or **three** sentences **each** : **10**

- i) Multifaceted career of Wernher Von Braun.
- ii) What did Von Braun advise Dr. A.P.J. Abdul Kalam ?
- iii) What did attract Swami Vivekananda's attention in China and Japan ?
- iv) Describe Vivekananda's appearance in the passage.
- v) What is the speciality of the mirror in the zoo of Lusaka ?
- vi) Why is the oldest human rights organization still in business ?

3. A) i) What is the message in the poem 'Brahma' ? **6**

- ii) Present the innocence of man about the Moon.
- iii) Explain the line, 'It shines tonight upon their graves'.

B) Answer briefly **any two** of the following questions : **4**

- i) As a program officer of a college N.S.S. Unit. Write a notice about the camp at the village and the schedule of activities.
- ii) Write the agenda for the third meeting of Utkarsh Cricket Club, Solapur.
- iii) Write a notice about the book exhibition to be held by the library of a college. Imagine yourself as the librarian.

4. A) Write an e-mail application letter in response to an advertisement for the part of Sales Executive by Gyan Book Publishers, New Delhi refer only briefly to your qualifications, work experience and say that you are attaching your CV for the reference. **10**

OR

B) Imagine that you have received an e-mail of appointment of a sales executive by Atlantic Book Publishers, New Delhi. Write an e-mail accepting the appointment.

5. Prepare a CV of your friend who is employed as a primary teacher. **10**



Seat No.	
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B.Sc. – I (Sem. – II) Examination, 2014
ENTREPRENEURSHIP (Paper – III) (New)
Principles of Marketing and Management Accounting

Day and Date : Friday, 9-5-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

1. Choose the correct answer from given alternative : 10
- i) _____ is example of market.
 - a) Cotton
 - b) Finance
 - c) Money
 - d) Sweet
 - ii) _____ is area of marketing research.
 - a) Observational Research
 - b) Product Research
 - c) Survey Research
 - d) None of these
 - iii) Which one of the following would not be classified as manufacturing overhead ?
 - a) Indirect labour
 - b) Direct material
 - c) Insurance on factory building
 - d) Indirect material
 - iv) NPO stands for
 - a) Non Profit Ratio
 - b) Net Profit Ratio
 - c) National Profit Ratio
 - d) Net Perfect Ratio
 - v) MIS stands for _____
 - a) Mass Information System
 - b) Marketing Information System
 - c) Most Information System
 - d) Market Information Segmentation
 - vi) A manager who is establishing objectives is performing which management function ?
 - a) Motivating
 - b) Directing
 - c) Planning
 - d) Constraining
 - vii) LR stands for _____
 - a) Latin Ratio
 - b) Lituid Ratio
 - c) Local Ratio
 - d) Learn Ratio
 - viii) Managerial accounting does not encompass
 - a) Calculating product cost
 - b) Calculating earning per share
 - c) Determining cost behaviour
 - d) Profit planning



- ix) MS stands for _____
 - a) Market Setting
 - b) Market strength
 - c) Market Segmentation
 - d) Market selection
- x) _____ is types of Account.
 - a) 4
 - b) 5
 - c) 3
 - d) 2

- 2. Answer **any five** of the following : **10**
 - i) Long form of SWOT.
 - ii) What is meant by market ?
 - iii) What is meant by micro-environment ?
 - iv) What is meant by accounting ?
 - v) What is meant by ratio analysis ?
 - vi) Define debtor and creditor.

 - 3. A) Answer **any two** of the following : **6**
 - i) Gross profit ratio.
 - ii) Importance of marketing research.
 - iii) Selling Vs Marketing.

B) Describe in short Management Account. **4**

 - 4. Answer **any two** of the following : **10**
 - i) Explain the types of marketing.
 - ii) Write down advantage of segmentation.
 - iii) Write down current ratio.

 - 5. Answer **any two** of the following : **10**
 - i) Explain scope and limitation of marketing research.
 - ii) Explain the types of account and rules of account with example.
 - iii) Describe internal and external forces.
-



Seat No.	
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B.Sc. – I (Semester – II) (New) Examination, 2014
ENTREPRENEURSHIP (Paper – IV)
Cost Accounting and Project Management

Day and Date : Saturday, 10-5-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

1. Choose the correct answer from given alternative : **10**
- i) Cost accounting is one of the subdivision of _____
- a) Management accounting b) Financial accounting
c) Corporate accounting d) None of these
- ii) Cost of production is _____
- a) Factory cost + Administration overhead
b) Factory cost + Prime cost
c) Prime cost + Factory cost
d) Prime cost + Factory overhead
- iii) Material is _____
- a) Direct expenses
b) Indirect expenses
c) Both a) + b)
d) None of these
- iv) Service costing is used in _____
- a) Hotel b) Hospital
c) Tourism d) All of the above
- v) Builders / Developers used _____
- a) Depreciation costing
b) Contract costing
c) Job costing
d) Batch costing



- vi) SSI means
- a) Small Scale Industry
 - b) Small Standard Industry
 - c) Standard Scale Industry
 - d) None of these
- vii) Project means _____
- a) Plan of action
 - b) Blue print of goals
 - c) Set of activities consideration of output
 - d) All of the above
- viii) The methods used for the calculation of cost per unit are known as _____
- a) Costing method
 - b) Costing procedure
 - c) Costing system
 - d) None of these
- ix) Operation costing is useful for _____
- a) Transport
 - b) Power generation
 - c) Both a) + b)
 - d) None of these
- x) PM stands for _____
- a) Private Management
 - b) Project Management
 - c) Project Material
 - d) Prime Management

2. Answer **any five** of the following :

10

- i) Write down type of cost.
- ii) Note on SSI.
- iii) Define Cost Accounting.
- iv) Explain sources of capital.
- v) What is indirect cost ?
- vi) Note on project report.



3. A) Answer **any two** of the following : 6
- i) Define project selection process.
 - ii) Explain elements of cost.
 - iii) Object of cost accounting.
- B) Describe in short : 4
- Objective and scope of small business.
4. Answer **any two** of the following : 10
- i) What do you mean by project report and explain its contents.
 - ii) Explain the characteristics of management costing.
 - iii) Explain direct and indirect expenses with example.
5. Answer **any two** of the following : 10
- i) Explain the significance of project report.
 - ii) Explain the capital cost and source of finance.
 - iii) Explain advantage and limitation of Job Cost Sheet.
-



- 8) In Van der Waal's equation term 'b' is called as _____
a) Vibratory volume b) Excluded volume
c) Critical volume d) All of these
- 9) Drop weight method is used to determine the _____
a) Viscosity b) Parachor
c) Surface tension d) All of these
- 10) Molecular volume at unit value of surface tension is called as _____
a) Parachor b) Viscosity c) Density d) All of these

2. Answer **any five** of following : **10**
- 1) Define number of moles and mole fraction.
 - 2) Give the factors affecting the rate of reaction.
 - 3) Define pseudo-unimolecular reaction and give its example.
 - 4) What do you mean by ideal gas and non-ideal gas ?
 - 5) Define isotherm and draw its graph.
 - 6) What is the Macleod equation ? Give the significance of each term in it.
3. A) Attempt **any two** : **6**
- 1) Define zero order reaction and explain it with example.
 - 2) Give the statement of Joule Thomson effect and draw its diagram.
 - 3) Give three characteristics of second order reaction.
- B) Explain pressure correction in Van der Waal's equation. **4**
4. Solve **any two** : **10**
- 1) Ostwald's isolation method with example.
 - 2) Derivation of first order rate constant.
 - 3) Explain Andrew's isotherm.
5. Write short note on **any two** of following : **10**
- 1) Drop weight method for surface tension determination.
 - 2) Values of 'a' and 'b' in terms of T_c , V_c and P_c .
 - 3) Derivation for rate constant of second order reaction at equal concentration of reactants.
-



- 8) The pH of stomach is about
a) 7 – 8 b) 10 – 12 c) 5 – 6 d) 1 – 2
- 9) No machine has _____ efficiency.
a) 0% b) 100% c) 50% d) 99.9%
- 10) The human body is composed of about _____ percentage of water by weight.
a) 60 b) 50 c) 40 d) 70

2. Answer **any five** of the following : **10**

- 1) How the fuels can be tested ?
- 2) Define the term-thermoplastic and thermosetting.
- 3) What is enthalpy ?
- 4) Define milk. Give the chemical composition of cow milk.
- 5) Give Kirchhoff's equation.
- 6) Draw the structures of linear, branched and cross linked polymer.

3. A) Answer **any two** of the following : **6**

- 1) What is meant by strain run and gasoline ?
- 2) What are the types of polymer ?
- 3) Explain the heat capacity of engine.

B) Write a note on : essential nutrients for plants. **4**

4. Answer **any two** of the following : **10**

- 1) What is cracking of fuel ? Why it is necessary ? Give different types of cracking.
- 2) How will you synthesize butadiene, polypropylene and melamine ?
- 3) Distinguish between spontaneous and non-spontaneous process.

5. Answer **any two** of the following : **10**

- 1) Discuss the role of sodium carbonate as an antacid.
 - 2) What are the types of fuels ? Discuss the term fire point.
 - 3) Write a note on Carnot's cycle.
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Seat No.	
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B.Sc. I (Semester – II) (New) Entrepreneurship Examination, 2014
INDUSTRIAL MICROBIOLOGY (Paper – IV)
Basic Techniques in Microbiology

Day and Date : Saturday, 17-5-2014
Time : 11.00 a.m. to 1.00 p.m.

Max. Marks : 50

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

1. Rewrite the following sentences by selecting correct answers from given alternatives. 10

- 1) Industrially important microorganisms preserved and maintained by
 - A) Lyophilization
 - B) Pasteurization
 - C) Water
 - D) Soil
- 2) In the down stream _____ is used for recovery of citric acid.
 - A) Precipitation
 - B) Crystallization
 - C) Boiling
 - D) All of the above
- 3) _____ is used as vector in strain improvement by genetic engineering.
 - A) DNA
 - B) RNA
 - C) Plasmid
 - D) T4 phage
- 4) Tyndalization process was discovered by
 - A) Alexander Flemmina
 - B) Louis Pasteur
 - C) Both A and B
 - D) John Tyndall
- 5) _____ is example of continuous filtration.
 - A) Plate and Frame
 - B) Rotary vacuum
 - C) HEPA filter
 - D) Meta filter
- 6) Foam is produced due to
 - A) Aeration
 - B) Agitation
 - C) Temperature
 - D) Both A and B



- 8) Preparatory phase of glycolysis is/are _____
- phosphorylation of glucose
 - isomerization of glucose 6-phosphate to fructose 6-phosphate
 - phosphorylation of fructose-6-phosphate
 - all of these
- 9) _____ is a major regulatory enzyme of glycolytic pathway.
- hexokinase
 - isomerase
 - dehydrogenase
 - phosphofructokinase
- 10) _____ ATP molecules are produced in EMP pathway.
- 4
 - 5
 - 7
 - 8

2. Write **any 5** of the following : **10**
- Define autotrophs.
 - What is acute toxicity ?
 - What is LC_{50} ?
 - Define passive transport.
 - Define biotransformation.
 - Phase I of biotransformation.
3. A) Write **any two** of the following : **6**
- Schematic representation of active transport
 - Significance of TCA cycle
 - Homolactic acid fermentation.
- B) Write in detail about 'EMP Pathway'. **4**
4. Write **any two** of the following : **10**
- Give a detail account on 'High energy phosphate compounds'.
 - Write an essay on 'Photophosphorylation'.
 - Describe in detail about 'components of electron transport chain'.
5. Write **any one** of the following : **10**
- Give a detail account on 'Biotransformation'.
 - Write an essay on 'Tricarboxylic acid cycle'.
-