FACULTY OF SCIENCE

B.Sc. (CBCS) V- Semester Examination, December 2023/January 2024

Subject: Chemistry

Paper – GE: Chemistry of Cosmetics, Food Processing, Drugs and Pharmaceuticals

Time: 3 Hours

Max. Marks: 80

PART – A

(8x4= 32 Marks)

Note: Answer any eight questions.

1. Explain the preparation of hair spray and sunscreen lotion.
2. Discuss the importance of geraniol and sandalwood oil in cosmetic industry.
3. What are the main ingredients in deodorants? Explain.
4. Explain the impact of food processing on nutrition.
5. Discuss the effect of packaging materials on nutritive value of foods.
6. How are the adulterants in chilli powder and ghee identified?
7. What is a drug? Give different sources of drugs.
8. What are the characteristics of an ideal drug?
9. Give the trade names for ciprofloxacin, paracetamol, aspirin and mebendazole.
10. What are the drugs acting on peripheral nervous system?
11. Give the common names and sources of vitamins A and C.
12. Explain briefly the function of hormones.

PART – B

(4x12= 48 Marks)

Note: Answer all the questions.

13. (a) (i) Discuss the preparation and uses of vanishing cream and nail enamel.
    (ii) Explain the importance of eugenol, eucalyptus and 2-phenyl alcohol in cosmetic industry.

(OR)

   (b) (i) Discuss the experimental procedure for the preparation of talcum powder and shampoo.
    (ii) Explain the composition and applications of antiperspirants.

14. (a) (i) Explain different methods for processing the food.
    (ii) What are the adulterants found in turmeric powder, honey and tomato sauce? How are they identified?

(OR)

   (b) (i) Discuss the classification of packaging materials of food products giving the advantages and disadvantages of any two of them.
    (ii) Discuss the need and importance of labeling of the food products.

15. (a) (i) Explain briefly absorption, distribution, metabolism and elimination of paracetamol.
    (ii) What is drug formulation? Explain the need for the conversion of drug into pharmaceutical.

(OR)

   (b) (i) Discuss the classification of drug formulations with examples.
    (ii) Write about antiallergic and anti-itching drugs.

16. (a) (i) Write a note on Chemotherapeutic agents.
    (ii) Explain the drugs acting on central nervous system with examples.

(OR)

   (b) (i) Discuss the diseases caused due to deficiency of vitamins B2 and D. How are they treated?
    (ii) Discuss the disorders due to deficiency of insulin and testosterone.

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FACULTY OF SCIENCE

B.A./B.Com. /B.Sc./BSW/BBA/B.Sc. (Hons.) (CBCS) II – Semester Examination,
June/July 2024

(Common Paper for All Courses)

Subject: Basic Computer Skills

AECC – II

Time: 1 ½ Hours

Max. Marks: 40

PART – A

(2 x 5 = 10 Marks)

Note: Answer any two questions.

1. What is the difference between RAM and ROM?

2. What is Booting? Explain various types of Booting?

3. Explain how to create Slide Show in Power Point.

4. Explain about Cell Reference in Excel?

PART – B

(2 x 15 = 30 Marks)

Note: Answer all the questions.

5. (a) What are Input and Output Devices? Explain about any three Input and three Output Devices.

(OR)

(b) What is Word Processing? Explain various features of Word Processing.

6. (a) What is E-Mail? What are the advantages and disadvantages of E-Mail?

(OR)

(b) Explain different kinds of Mathematical and Statistical Functions in Excel.

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Code No: F-17047/ETU

FACULTY OF COMMERCE

B. Com. (CBCS) V Semester Examination, December 2023
(Common Paper for General / Computer Applications / Advertising /
Business Analytics / Foreign Trade and Tax Procedure Courses)
Subject: Business Economics
Paper: Generic Elective (GE Paper)

Time: 3 Hours

Max. Marks: 80

PART – A
(Short Answer Type)

Note: Answer any five questions.

(5 x 4 = 20 Marks)

1. Price Theory
2. Elasticity of Demand
3. Law of Supply
4. Production Function
5. Long Run Cost
6. Isoquant
7. Market Equilibrium
8. Returns to Scale

PART–B
(Essay Answer Type)

Note: Answer all the questions.

(5 x 12 = 60 Marks)

9. (a) Define Business Economics. Explain the nature and scope of Business Economics.

(OR)

(b) Define the term Utility. Explain the Law of Diminishing Marginal Utility with a table and diagram.

10. (a) State the Law of Demand with its exceptions.

(OR)

(b) What is Price Elasticity of Demand? What are the types of Price Elasticities of Demand?

11. (a) What is Consumer Surplus? Explain how it measured.

(OR)

(b) What is Indifference Curve? Explain the properties of Indifference Curves.

12. (a) Explain the three stages of Law of variable Proportions. Which stage is important for production?

(OR)

(b) What are the internal and external Economics of Large Scale Production?

13. (a) Explain the various Short Run Cost Curves. Explain the relationship between Average Cost and Marginal Cost.

(OR)

(b) What is a Break-Even Point? Explain with a diagram. Calculate the Break-Even Point with the given data.