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SUBJECT CODE NO: - YY-2374
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) F.Y SEM II
Examination April / May - 2024
Chemistry Paper-V Applied Chemistry

[Time: 1:30 Hours]

[Max. Marks: 40]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions
- 2) Illustrate your answer with Suitable diagram if necessary

Q.1 a) What is the principle of Chromatography? Explain the paper chromatography in detail 10

OR

Explain in brief:

- b) Classification of drugs
- c) Preparation of Paracetamol

Q.2 a) Explain the process of manufacture of glass. 10

OR

Explain in brief:

- a) Bathochromic shift & Hypochromic shift
- b) Applications of U.V. spectroscopy

Q.3 Write short notes on (any two) 10

- i) Ascending & Descending Chromatography
- ii) Preparation of Aspirin
- iii) Types of electronic transition
- iv) Types of fertilizers.

Q.4 Choose the correct option of the following 10

- i) The process of passing mobile phase through a Chromatography column is called _____
 - a) Flushing
 - b) Washing
 - c) Elution
 - d) Portioning

- ii) Which of the following is used as a Carrier gas in gas Chromatography
- a) Carbon dioxide
b) Oxygen
c) Helium
d) Methane
- iii) _____ is the physical prop of glass
- a) Transparency
b) Heat resistance
c) Chemical resistance
d) All of these
- iv) Ordinary glass is obtained by –using _____
- a) CaCO_3
b) Na_2CO_3
c) SiO_2
d) All of these
- v) The drug which produces temporary insensibility to pain is called _____
- a) Analgesics
b) Antibiotic
c) Anaesthetics
d) Antipyretic
- vi) Acetyl Salicylic acid is also called _____
- a) Paracetamol
b) Aspirin
c) Cefixime
d) Ampicilin
- vii) Base value for homoannular diene is _____ nm.
- a) 253
b) 217
c) 30
d) 214
- vii) Select the wavelength range Corresponding to UV-Vis region
- a) 400 – 800 nm
b) $25\mu\text{m}$ - $2.5\mu\text{m}$
c) 200-800 nm
d) 2.5 - 1mm
- viii) urea Contain _____ % of nitrogen
- a) 51
b) 75
c) 46
d) 93
- ix) Which among the following is not a nitrogenous fertilizer
- a) Ammonium Sulphate
b) Calcium cyanide
c) Super phosphate of lime
d) Urea.