

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
Computer Science & Engineering
B. Tech. Sem - I :SUMMER : 2023
SUBJECT : ORGANIC & ELECTROCHEMISTRY

Day : Thursday

Date : 11-05-2023

S-24020-2023

Time : 10:00 AM-01:00 PM

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.
- 4) Use of non-programmable **CALCULATOR** allowed.

- Q.1 i) Differentiate the following covalent bond and co-ordinate bond. [10]
ii) Inter and intramolecular H-bond

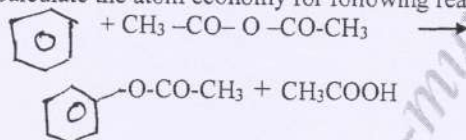
OR

- Q.1 Explain the concept of electronic spectra and magnetic properties of [10]
complexes.

- Q.2 Explain in detail design in and degrading products in green chemistry with [10]
example.

OR

- Q.2 Calculate the atom economy for following reactions [10]



- Q.3 Give the construction and working of following electrodes [10]
i) Metal - Metal -ion electrode.
ii) Amalgam Electrode.

OR

- Q.3 Write a note on electrochemical series. [10]

- Q.4 Give photonic applications in detail? [10]

OR

- Q.4 Compare between addition polymerization and condensation polymerization. [10]

- Q.5 Define electrical insulators give the properties of electrical insulators. [10]

OR

- Q.5 Explain in detail electrical conductivity of solids based on band gap theory. [10]

- Q.6 What are the functions of lubricants? Gives properties of Viscosity index. [10]

OR

- Q.6 Write a note on
i) Flash point and fire point. [05]
ii) Cloud point and pour point. [05]

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