

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I Computer Science & Engineering : WINTER : 2023
SUBJECT : ENGINEERING CHEMISTRY

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 04-12-2023

W-27608-2023

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREEVER** necessary.
- 4) Assume suitable data if necessary.

Q.1 Define Permanent hardness of water with example. Explain principle and procedure of EDTA method with chemical reactions. [10]

OR

Q.1 Write a note on Green Chemistry. Give four applications of Green Chemistry. [10]

Q.2 Write a note on Octane and Cetane number. [10]

OR

Q.2 Explain fluidized bed catalytic cracking with neat labelled diagram. [10]

Q.3 Write a note on Hot Dipping. [10]

OR

Q.3 Describe Cathodic protection with its types. [10]

Q.4 Define Polymer with examples. Write a note on Addition and Condensation Polymerization. [10]

OR

Q.4 Write a note on Conducting polymers. [10]

Q.5 Describe structure, properties and applications of Fullerenes with neat labelled diagram. [10]

OR

Q.5 Explain types of nanomaterial with respect to dimensions. Give four Electrical properties and Thermal properties of nanomaterial. [10]

Q.6 Describe instrumentation, working and applications of Colorimeter with necessary diagram. [10]

OR

Q.6 Write a note on UV/Visible Spectroscopy. [10]

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