

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I INFORMATION TECHNOLOGY : WINTER : 2024
SUBJECT: ENGINEERING CHEMISTRY

Day : Wednesday
Date : 04/12/2024

W-27657-2024

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) Draw neat diagrams **WHEREVER** necessary.

- Q.1 Write note on Water softening methods. (10)
OR
Q.1 Describe briefly Green chemistry with applications. (10)
- Q.2 Define Calorific value with types. (10)
Explain the advantages and disadvantages of Biodiesel.
OR
Q.2 Explain construction, working and applications of Solar cell with neat labeled diagram. (10)
- Q.3 Explain Differential aeration and Galvanic corrosion cell with necessary diagram. (10)
OR
Q.3 Write note on Paint and Varnishes. (10)
- Q.4 Describe synthesis, properties and applications of Fiberglass composites. (10)
OR
Q.4 Write note on Hybrid and reinforced composites. (10)
- Q.5 Define Nanotechnology with an example. (10)
Write note on Carbon nano tubes.
OR
Q.5 Explain principle, construction and working of Chemical vapor deposition method with a neat labeled diagram. (10)
- Q.6 Describe the instrumentation, working and applications of the Colorimeter with the necessary diagram. (10)
OR
Q.6 Describe UV/Visible Spectroscopy with applications. (10)

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