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Total No. of Questions: 09

Total No. of Pages: 02

B. Tech. (Sem. 1,2) ENGINEERING CHEMISTRY Subject Code: BTCH-101 Paper ID: A1106

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. Section A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. Attempt any FIVE questions from Section B & C. At least TWO questions each from Section B & C, each question carry EIGHT marks.

SECTION A

- **1.** Compulsory Question:
 - a. How the intensity of the rotational spectral lines varies and why?
 - b. Are the lines in Rotational Raman Spectra equally spaced? Elaborate your answer.
 - c. Write a short note on waterline corrosion.
 - d. Discuss about supramolecular structures.
 - e. What is meant by tacticity of polymers?
 - f. Comment on the free energy change of photochemical reactions giving reasons.
 - g. What is meant by first, second and third generation petrochemicals?
 - h. How is Green Chemistry helpful in designing of safer chemicals?
 - i. Describe the term priming and foaming in Water and its treatment.
 - j. What do you understand by multiplicity of the state?

SECTION B

- 2. State Lambert-Beer's law. Derive its mathematical form. What are its limitations?
- 3. Write a detailed note on construction, working and chemistry behind photovoltaic cell.
- 4. With the help of a neat diagram, explain reverse osmosis method of desalination.
- 5. Write a detailed note on use of innocuous reagents in natural processes with suitable examples.

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SECTION C

- 6. Discuss in details the causes of wet corrosion and the mechanism of wet corrosion with the help of chemical equations involved.
- 7. How are polymer matrix composites and fiber reinforced plastics made?
- 8. Describe in details "materials self-assembly".
- 9. Write in details about primary raw materials for petrochemicals and Crude oil.

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