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No.

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AOI1320

**Engineering Chemistry - II**  
**(Old) (1100)**

P. Pages : 2

Time : Two Hours

Max. Marks : 50

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Neat labelled diagram must be drawn wherever necessary.
5. Use of non programmable electronic calculator is allowed.
6. Figures to the right indicate full marks.

1. Solve **any two** from the following.

- a) Define Isomerism. Explain different types of structural isomerism with example. 5
- b) What is mesomeric effect ? Explain it with suitable example. 5
- c) What are electrophiles ? Explain various types of electrophiles. 5

2. Solve **any two** from the following.

- d) Give preparation, properties and uses of polystyrene. 5
- e) Differentiate between addition and condensation polymerisation. 5
- f) Give classification of polymers on the basis of : 5
  - i) Origin
  - ii) Thermal behavior.

3. Solve **any two** from the following.

- g) Explain determination of calorific value using Bomb calorimeter with neat labelled diagram. 5
- h) Write a note on Water gas. 5
- i) Give preparation, properties and uses of : 5
  - i) Gasoline
  - ii) Kerosene.

4. Solve **any two** from the following.

- j) Explain the Green house effect. 5
- k) Give the classification of water pollutants. 5
- l) What is thermal pollution ? Write any four effects of thermal pollution. 5

5. Solve **any two** from the following.

- i) Give preparation, properties and uses of Teflon. 5
- ii) Describe the nucleophilic reagent with one example. 5
- iii) Give preparation, properties and uses of polyvinyl chloride (PVC). 5
- iv) Explain hyperconjugation effect. Give any two applications of hyperconjugation effect. 5

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