

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What are polymer? In how many categories the polymer are classified. Explain with suitable examples.
- Q.4 Discuss various career opportunities of plastic technologist.
- Q.5 What are conducting polymer? Give reason for there different behaviour and uses.
- Q.6 Write short note on
- (a) History of polymer
 - (b) Biomedical polymer
- Q.7 State and explain difference between thermoplastic and thermoset polymers with their properties and uses.

No. of Printed Pages : 4

Roll No.

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2nd Sem. / Plastics Tech.

Subject : Orientation to Polymer Chemistry

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define density of material.
 - b) Name two speciality polymers.
 - c) Name two unit operations.
 - d) Expand the term PET.
 - e) S.I. unit of pressure is?
 - f) Define Linear polymer.
 - g) Give names of two natural polymers.
 - h) Define mass fraction.
 - i) Define fibre.

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- j) Define unit process.
- k) Name two thermoset polymers.
- l) What is a membrane.
- m) Define Solution.
- n) Define Synthetic polymers.
- o) What is F.P.S.
- p) Define Normality.
- q) Define Solute.
- r) Name two Engineering polymer.

SECTION-B

Note: Short answer type questions. Attempt any ten parts

10x4=40

- Q.2
- i) Give the formula and definition of molarity.
 - ii) Give the difference between natural and synthetic polymer.
 - iii) Discuss polymer blends with suitable example.

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- iv) Draw the diagrams of linear branched and crosslinked polymer.
- v) Give the S.I. units of pressure and temperature.
- vi) What are polymer alloys.
- vii) What is addition polymerisation explain with example.
- viii) State the difference between thermoplastic and thermoset.
- ix) Define Conducting polymers.
- x) Give limitations of C.G.S. system.
- xi) What are various job opportunity in automobile sector.
- xii) Define molarity and Normality.
- xiii) Convert one atmospheric pressure into one bar pressure.
- xiv) What is tacticity? Explain.
- xv) Name any four engineering plastics with their application.

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