SECTION-C

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

- Q.3 Describe manufacture and applications of Polyether Ether Ketone and Polyacetals.
- Q.4 Describe the manufacture, properties and uses of Polyacrylates.
- Q.5 Describe the preparation and properties of Boson fiber.
- Q.6 Describe the preparation and applications of PVC-Nitrile rubber.
- Q.7 Describe the preparation and applications of conducting polymers.

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4th Sem. / Plastic Tech.

Subject : Plastic Materials and Properties-II / Engg. & Sp. Poly

Time: 3 Hrs. M.M.: 100

SECTION-A

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

- Q.1 a) Define thermoplastics.
 - b) Define elastomer.
 - c) Expand PSO.
 - d) What is 'Teflon'?
 - e) State the uses of polyacetals.
 - f) Expand PES
 - g) Name two coupling agents used in reinforced plastics.
 - h) What is mica?
 - i) Expand PU.

- j) State the role of CNT in nanocomposites.
- k) Define nano particles.
- I) Write general structure of Nylon 6.
- m) Expand EPDM.
- n) What is meant by compatibility of blend?
- o) Define polymer alloy.
- p) Define Biopolymer.
- q) Give two applications of polymer concrete.
- r) Define optoelectronic plastics.

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) Describe manufacture of Polyphenylene oxide.
 - ii) State the properties and uses of PTFE.
 - iii) Write a note on liquid crystalline polymer.
 - iv) Describe the manufacture of Polyether Sulphone.

- v) Explain the principle of composite reinforcement.
- vi) Explain the role and nature of binders in reinforced plastics.
- vii) Explain the role of Talc in reinforced plastics.
- viii) Explain the properties and applications of epoxy FRP's.
- ix) Write a note on interpenetrating polymer network.
- x) State the advantages of polymer blends and alloys.
- xi) State the properties of ABS-PVC blend.
- xii) Define clay and state its role in nanocomposites.
- xiii) State the applications of Biopolymers.
- xiv) Write a note on nano-polymeric materials.
- xv) Describe the applications of optoelectronic plastics.

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