

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Discuss the construction and working of banburry mixer.
- Q.24 Explain in detail of twin screw extruder with neat sketch.
- Q.25 Write short note on-
- a) Stabilizers
  - b) Lubricants

No. of Printed Pages : 4

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Roll No. ....

### 5th Sem / Plastic Technology

### Subject : Compounding and Formulation of Plastics

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Example of fillers

- a) Sand
- b) Mica
- c) Jute
- d) All of these

Q.2 Fillers are used to improve the

- a) Hardness
- b) Flexibility
- c) Both A & B
- d) None of these

Q.3 Plasticizers are improves

- a) Flexibility
- b) Brittleness
- c) Conductiveness
- d) Insulator

- Q.4 To protect flame during processing of plastic material
- a) Flame retardant
  - b) Blowing agents
  - c) Mold releasing agents
  - d) None of these

- Q.5 Blowing agents are an example of
- a) Sodium bicarbonate
  - b) calcium carbonate
  - c) Both A & B
  - d) None of these

- Q.6 Root diameter is greater than
- a) Major diameter
  - b) Minor diameter
  - c) Both A & B
  - d) None of these

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define pitch of screw.
- Q.8 Define plastisol.
- Q.9 Define thermoset with two example.
- Q.10 Define helix angle

- Q.11 Write two example of plasticizers
- Q.12 Write two example of flame retardant.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 State the function of plasticizers in plastic industry.
- Q.14 Explain two roll mill with neat sketch.
- Q.15 Discuss intensive dry mixer with suitable example.
- Q.16 Explain formulation of PVC compounding for flexible pipes.
- Q.17 Write the function of UV stabilizers in plastic industry.
- Q.18 What are the merits and demerits of mold releasing agents.
- Q.19 Write principle of compounding for modifying processing characteristics.
- Q.20 Discuss antiblock additives for compounding.
- Q.21 Explain ribbon blender with neat sketch.
- Q.22 Write working and construction of kneaders