

Q.21 Explain two defects and remedies in Matched mold forming.

Q.22 Discuss pressure bag moulding.

SECTION-D

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

Q.23 With the help of neat sketch explain principle, construction and working of compression moulding.

Q.24 Explain :

- a) Filament winding technique.
- b) Plastics Casting

Q.25 Discuss :

- a) Snap back forming
- b) Five defects and remedies of compression moulding.

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4th Semester/ Plastic Technology Subject : Plastic Processing Techniques-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 Which of the following is the polymer resin used in fibre reinforce composites _____.

- a) Elastomers
- b) Thermoplastics
- c) Thermosets
- d) Both Elastomers & Themoplastics

Q.2 In compression moulding the curing time is _____.

- a) Less
- b) Moderate
- c) More
- d) None

Q.3 During transfer moulding, plastic material is transferred into a chamber called _____.

- a) Sprue
- b) Pot
- c) Mould Cavity
- d) None

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- Q.4 Full form of FRP is _____.
- Filament rod polymerization
 - Fiber rubber processing
 - Filament resin plastic
 - Fiber reinforced plastics
- Q.5 In thermoforming plastic sheets are heated to _____.
- Boiling point
 - Tg Point
 - Sag point
 - Melting point
- Q.6 Vents are provided in compression mold _____.
- To remove extra material
 - To remove the volatile gases
 - To remove moisture
 - All of these

SECTION-B

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

- Q.7 Give two limitations of transfer moulding process.
- Q.8 What is temperature range in which compression moulding machine is used?

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- Q.9 Name two defects of thermoforming process.
- Q.10 What is the maximum thickness that can be allowed for a plastic sheet in vacuum forming process?
- Q.11 Name two products made by casting process.
- Q.12 Name two different types of printing process.

SECTION-C

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

- Q.13 Explain Spray – up technique.
- Q.14 Discuss limitations of forming process.
- Q.15 Explain various materials used in thermoforming process.
- Q.16 Discuss effect of process variable on product properties.
- Q.17 Suggest some remedies for reducing burn marks in plastic components.
- Q.18 Give advantages of Hand – lay up process.
- Q.19 Discuss encapsulation process.
- Q.20 Write short note on clamping pressure and pot capacity of transfer molding.

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