

Q.24 Explain various mold materials with their characteristics.

Q.25 Write short note on

- a) Ejection technique
- b) Selection of parting surface

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3rd Sem./ Plastic Technology
Sub :Design of Dies & Mould-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Cavity provides the shape of article is
- a) Internal shape
 - b) External shape
 - c) Both A & B
 - d) None of these
- Q.2 Function of guide pillar
- a) Alignment of mold plates
 - b) Mold cooling
 - c) Eject the article
 - d) None of these
- Q.3 Ejection techniques are used for
- a) To eject the articles
 - b) Chemical reaction
 - c) Cooling the article
 - d) Filling the cavity

- Q.4 Parison performs
a) Bottles b) Chairs
c) Soap case d) None of these

Q.5 Pot is used in which molding process

- a) Transfer molding
b) Compression molding
c) Injection molding
d) Blow molding

Q.6 Types of positive mold is used in which molding

- a) Compression molding
b) Blow molding
c) Injection molding
d) Transfer molding

SECTION-B

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

- Q.7 Define die.
Q.8 Write two feature of die.
Q.9 Write two example of co-extrusion produced product.
Q.10 Write calculation formula of clamping pressure in compression molding.

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- Q.11 Define pinch off.
Q.12 Write two materials for blow molds.

SECTION-C

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

- Q.13 Write general features of extrusion die.
Q.14 Write short note on polymer melt flow.
Q.15 Write short note on ease of maintenance and cleaning of die.
Q.16 Explain types of die.
Q.17 Write types of compression molds.
Q.18 Discuss principle of transfer molding and their types.
Q.19 How to calculate clamp pressure and ram pressure in transfer molding.
Q.20 How to design extrusion die.
Q.21 What are the effect of shrinkage on products.
Q.22 Why do we use cooling system.

SECTION-D

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

- Q.23 Name different types of materials used for die and give their characteristics.

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