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3rd Sem / Plastic Technology

Subject : Design of Dies and Mould - I

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 Feed system is

a) Sprue b) Runner

c) Gate d) All of these

Q.2 O' ring is used for

a) To protect leakage b) Increase cooling

c) Decreases temp. d) None of these

Q.3 Core provides

a) Internal Shape b) External shape

c) Both A & B d) None of these

Q.4 Molding defects is/are

a) Flash b) short shot

c) Voids d) All of these

Q.5 Preforms provides

a) Electrical switches b) Plastic chair

c) Tables d) Bottles

Q.6 Extrusion molded product

a) Pipes b) Wires

c) Coatings d) All of these

SECTION-B

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

Q.7 Write the name of two cooling methods.

Q.8 Define core.

Q.9 Define cavity.

Q.10 Define mold.

Q.11 Define die.

Q.12 Write two names of ejection techniques.

SECTION-C

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

Q.13 Discuss integer type mold plate and its types.

Q.14 Explain parting surface and its types.

Q.15 Explain gate & their types and discuss any one of them.

Q.16 Explain runner balancing.

Q.17 What are the characteristics of die materials?

Q.18 Name different types of bolster plates.

Q.19 How runners are classified.

Q.20 Discuss element of feed system.

Q.21 Draw neat sketch of guide bush and guide pillars.

Q.22 Explain register ring and its types.

SECTION-D

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

Q.23 Explain in detail two plate mold with neat diagram.

Q.24 Explain any four types of gate with their neat sketch.

Q.25 Explain ejector plate assembly with neat diagram.