

- Q.24 Write five materials used for fabrication of injection mould. Write their characteristics and parts fabricated by them.
- Q.25 Draw a neat and labelled sketch of ejection system assembly.

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

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

- Q.1 What is purpose of Ejector Pin?
- a) Cooling b) Keeping
c) Injection d) Ejection
- Q.2 The gate is part of ejection system of mould.
- a) True b) False
c) May be d) Not
- Q.3 What is standard Helix angle of screw?
- a) 15" b) 16"
c) 17.7" d) Not
- Q.4 How many parting line does a two plate mould has?
- a) 1 b) 2
c) 3 d) 4

Q.5 Mould gives

- a) 1D Product b) 2D Product
- c) 3D Product d) Not

Q.6 Die give

- a) 1D Product b) 2D Product
- c) 3D Product d) Not

SECTION-B

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

- Q.7 The smaller size of gate is better for design of mould. (True/False)
- Q.8 Name two different types of water connections used in plastic mould.
- Q.9 Give function of bolster plate.
- Q.10 Define Runner.
- Q.11 Two plate mould can have only one parting line. (True/False)
- Q.12 Write difference between mould and die.

SECTION-C

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

- Q.13 Discuss Ejector plate assembly.
- Q.14 Discuss relief of parting surface.
- Q.15 Explain criteria of selection parting line.
- Q.16 Discuss various materials used for die and mould.
- Q.17 Give various characteristics of hot runner mould.
- Q.18 Discuss different types of gate.
- Q.19 Explain function of gate, runner and sprue with neat diagram.
- Q.20 Define core and cavity.
- Q.21 What is mould venting why it is used in injection mould.
- Q.22 Explain Z type cooling system and its importance.

SECTION-D

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

- Q.23 Give difference between two plate mould and three plate mould.