

- 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.