

- Q.22 Differentiate between two and three plate mould .

Q.23 Discuss electroplating

Q.24 Write short note on :

 - a) Tempering b) Hardening

Q.25 Explain gates, their types and advantages.

Q.26 Write short note on :

 - a) Positive mould b) Flash mould

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Design and draw a two cavity compression mould for a rectangular block of 4.0m x 10.0m side and 0.50cm thickness, to be made from phenol formaldehyde resins with specific gravity 2.0 and bulk factor 1.0.

Q.37 Design and Draw a multi cavity semi positive type mould for electrical switch.
(Assume dimensions)

Q.38 Design and draw a hot runner mould for Polypropylene chair.

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**5th Sem / T & D
Subject:- Plastic Mould Design and Drawing**

Time : 3Hrs. M.M. : 100

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 ____ type of mould requires accurate weighed charge material in compression moulding ?

 - a) Flash mould
 - b) Positive
 - c) Landed mould
 - d) Semi-positive mould

Q.2 Which of the following are the types of compression mould ?

 - a) Flash
 - b) Horizontal semi-positive
 - c) Vertical semi-positive
 - d) All of them

Q.3 Which moulding process consists of sprue, runner and gate ?

 - a) Automatic Compression moulding
 - b) Transfer moulding
 - c) Hand Compression moulding
 - d) Rotational moulding

- Q.4 What is the remedy for short shot defect in compression moulding process?
- Increase charge weight
 - Decrease mould closing speed
 - Increase mould temperature
 - Reduce breathing time
- Q.5 What is function of mould runner?
- Vent trapped air
 - Provide entry into the mould cavity
 - Define mould parting line
 - Provide path to the mould gates
- Q.6 What is the advantage of preheating the raw material in compression moulding?
- Increase the Flash
 - Decrease the strength
 - Reduce the flow
 - Reduce moulding pressure
- Q.7 Which part is an opening at the entrance of the cavity
- Runner
 - Gate
 - Sprue
 - Core
- Q.8 Draft is provided for:
- Improving strength of component
 - Easy removal of component
 - Increase stiffness
 - Proper shrinkage
- Q.9 In tempering process the steel is heated to a temperature:
- Below the lower critical point
 - Higher than the lower critical point
 - In between the lower and upper critical point
 - Higher than the upper critical point.

Q.10 During transfer moulding, plastic material is transferred into a chamber called _____.

- Sprue
- Pot
- Mould cavity
- none

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Draw compression moulding cycle .
- Q.12 What is balancing of runner ?
- Q.13 Define Injection Pressure.
- Q.14 Name three Zones of Injection moulding screw.
- Q.15 Define Guide pillars.
- Q.16 Name four thermoforming process .
- Q.17 Define undercuts.
- Q.18 Define parting line .
- Q.19 What is flash mould ?
- Q.20 Why mould ventilation is important ?
- Q.21 Write material used for cavity plates, core plate and guide bush.
- Q.22 Why preventive maintenance of moulds is necessary?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss mould cooling mechanism for Injection mould.