

B.Tech. Eighth Semester (Polymer (Plastics) Technology) (CGS)
11150 : Mould Design for Plastics
8 PP 04

P. Pages : 2

Time : Four Hours



AU - 3065

Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

- | | | | |
|----|----|--|---|
| 1. | a) | Why Be-cu alloy and aluminum are used as mould making material? | 3 |
| | b) | Define Mould or Die? Give it's working and significance. | 3 |
| | c) | Explain pressure casting technique of mould making with neat sketch. | 8 |

OR

- | | | | |
|----|----|--|---|
| 2. | a) | What are the various materials used in construction of mould? | 3 |
| | b) | Design and draw three plate mould and label the parts? | 3 |
| | c) | Discuss cold hobbing process of mould making parts with help of neat sketch? | 8 |
| 3. | a) | Explain principle, working of single – Day light and Multi-Day – Light mould? | 6 |
| | b) | Design and draw "Sprue" with different type of design to suit the modified mould design? | 7 |

OR

- | | | | |
|----|----|---|---|
| 4. | a) | Discuss Integer method of making cavity core plate with the application of local inserts? | 7 |
| | b) | Define Bolstar? Explain it's various type with help of neat sketch? | 6 |
| 5. | a) | Explain the cooling systems used in injection mould, with its type & significance. | 6 |
| | b) | Why Ejection system is required in mould Design? Give its technique of ejection in injection mould? | 7 |

OR

- | | | | |
|----|--|---|----|
| 6. | | How will you determine most economical number of cavities for an injection mould? | 13 |
|----|--|---|----|

SECTION – B

7. a) Explain principle working with help of neat sketch wire-cable coating die. 9
b) Write fundamental design aspect of gear and bearing for extrusion. 5

OR

8. a) What do you mean by Die? Which parameter are taken into consideration while designing die for sheet? Give its design feature with help of neat sketch. 9
b) State the designing aspects for tape & profile die. 5
9. Discuss principle working and significance of positive, semipositive and flash type of mould with the help of neat sketch. 13

OR

10. a) State the factor to be considered by mould designer while designing Runner and gate systems for a compression mould. 7
b) Describe and design a standard components of compression mould. 6
11. Discuss the following terms used in transfer mould:-
i) Ventings.
ii) Clamping force
iii) Transfer pressure

OR

12. a) Design and draw a loose plate type Transfer mould.
b) Discuss the factors to be considered while designing Transfer mould.

http://www.sgbauonline.com

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से