

Section-D

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

Q.23 Write a short note on :

- a) Cooling and heating system of a mould
- b) Feed system of mould in detail with diagram.

Q.24 Explain :

- a) Various materials used in Injection moulds
- b) Different types of thermoforming process

Q25 Design and Draw a multi cavity compression mold for an electrical Switch. (Assume suitable dimensions).

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**5th Sem. / Mech. Engg. (Tool & Die Design)
Sub : Plastic Mould-Design & Drawing**

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 Molten tube of thermoplastic is called _____.

- a) Parison
- b) Thermo-tube
- c) Poison
- d) Tubling

Q.2 A mould cavity is also known as _____.

- a) Impression
- b) Core
- c) Core-pin
- d) Ejector

Q.3 Which of the following processes of moulding is widely used for the manufacturing of bottle caps and automotive dashboards?

- a) Compression moulding
- b) Transfer moulding
- c) Injection moulding
- d) Jet moulding

Q.4 _____ cannot be avoided in compression moulds.

- a) Sprue
- b) Runner
- c) Gate
- d) Flash

Q.5 What is the name of line which lies between two moulds halves?

- a) Parting Line
- b) Center Line
- c) Matching Line
- d) Vertical Line

Q.6 _____ connect the sprue with the gate.

- a) Runner
- b) Gate
- c) Core
- d) Cavity

Section-B

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

Q.7 _____ forces the molten material through the nozzle and into the mould.

Q.8 L/D ratio stands for _____.

Q.9 Give two advantages of hardening process.

Q.10 Expand EBM.

Q.11 What is injection pressure?

Q.12 Name two dies used in extrusion process.

Section-C

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

Q.13 Discuss various electrical and electronics control system in injection mouldings.

Q.14 Draw neat sketch of Hand injection moulding explaining its parts.

Q.15 Explain Location and guide system mechanism for injection moulds.

Q.16 Write short note on :

- a) Positive mould
- b) Flash mould

Q.17 Discuss different types of ejection systems in brief.

Q.18 Give importance of preheating moulds, in moulding process.

Q.19 Explain principle of blow moulding.

Q.20 State at least four applications of rotational moulding.

Q.21 Explain difference between compression moulding and transfer moulding process.

Q.22 Give four defects and remedies of rotational moulding process.