

- Q.24 Write the main features and contents of mould design checklist.
- Q.25 Explain principle of drawing of mould lay out.
- Q.26 Explain the information required to make a mould design and factors on which the design depends.
- Q.27 Describe standard elements and give their nomenclature.
- Q.28 Explain the concept of design of mould parts.
- Q.29 Show with diagram the location of runner and gate in a mould and write their functions.
- Q.30 Write a short note on shrinkage and allowances in mould design.
- Q.31 Enlist the main properties of mould material.
- Q.32 Describe standard elements Give the meaning of designation of standard elements.
- Q.33 Show the main mould parts with a diagram.
- Q.34 What is role of shrinkage and allowance in making drawing of a component?
- Q.35 Write a short note on cooling and heating circuit of a mould.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What are the features need to be calculated before designing a mould? Describe each feature in detail
- Q.37 Explain the principle of selection of standard mould parts. Explain standard mould parts with diagram.
- Q.38 Write a short note on:
- Cooling and heating circuit of a mould.
 - Feed system of mould in detail with diagram.

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**2nd Year/Branch : Advance Diploma
In Tool and Die Making
Subject:- Tool Design Practice-II
(Plastic Moulds)**

Time : 4Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which unit is including knockout, stripper, blades etc.?
- Cooling System
 - Injection System
 - Clamping System
 - Ejection System
- Q.2 Which type of mould is called runner less mould?
- Compression mould
 - Blow mould
 - Cold runner mould
 - Hot runner mould
- Q.3 Which type of moulding process is used with prefoams?
- Continuous blow moulding
 - Stretch blow moulding
 - Extrusion blow moulding
 - None of these
- Q.4 What is the name of the line which lies between two mould halves?
- Parting line
 - Centre line
 - Matching line
 - Vertical line

- Q.5 Which is a process of manufacturing a hollow plastic part?
- Extrusion Moulding
 - Injection Moulding
 - Blow Moulding
 - Compression Moulding
- Q.6 Which type of heaters is used for hand injection moulding machine?
- Cartridge heater
 - Band heaters
 - Coil type heaters
 - Immersed type heaters
- Q.7 Transparent soft-drink bottles are made from which plastic material:
- PVC
 - PET
 - UF
 - PP
- Q.8 The drawing which represents the rough idea of the actual design is called _____
- Conceptual Sketch
 - Conceptual elevation
 - Conceptual digit
 - Conceptual parameters
- Q.9 _____ is known as day light?
- Distance between screw and barrel
 - Distance between screw and motor
 - Distance between the platens
 - Distance between the hopper and barrel

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- Q.10 Which type of polymer material is universally dark and opaque?
- Poly ethylene
 - Poly carbonate
 - Poly styrene
 - Phenol formaldehyde

SECTION-B

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

- Q.11 Define undercuts
- Q.12 Define shrinkage
- Q.13 Name two different types of gates used in Injection moulding.
- Q.14 Write the principle of components geometry.
- Q.15 Define assembly drawing
- Q.16 Write use of conceptual design
- Q.17 Write the use of information data sheet.
- Q.18 Write use of drawing norms.
- Q.19 Describe mould housing.
- Q.20 Describe allowance.

SECTION-C

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

- Q.21 Explain the process of selecting optimum design and their main parameters of selection?
- Q.22 Explain the role of assembly and detailed drawing for manufacturing of mould.
- Q.23 Write a short note on drawing norms in making drawing of mould.

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