

- Q.27 Describe the significance of conceptual design and need of evaluation of conceptual design.
- Q.28 Explain the process of selecting optimum design. What are the main parameters of selection?
- Q.29 Explain the role of assembly and detailed drawing for manufacturing of mould.
- Q.30 Write a short note on drawing norms in making drawing of mould.
- Q.31 Write the main features and contents of mould design checklist.
- Q.32 Explain principle of drawing of mould lay out.
- Q.33 Explain concept of processing parameters.
- Q.34 Write the role of CAD software in mould design.
- Q.35 Write a short note on plastics processing software packages.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the principle of selection of standard mould parts. Explain standard mould parts with diagram.
- Q.37 Write the principles of lay out of cavities, feed system, layout of runner and gating system Draw runner and gating system layout for a mould.
- Q.38 Explain the main parts by drawing assembly and detailed drawing of a mould.

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2nd Year / 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 Milk and water bottles are made of
- Polyethylene
 - Polypropylene
 - Polyvinyl chloride (PVC)
 - Polystyrene
- Q.2 Draft is provided for:
- Improving strength of component
 - Easy removal of component
 - Increases stiffness
 - Proper shrinkage
- Q.3 The purpose of a fan gate is to _____
- Speed solidification
 - Control injection speed
 - Spread material over a large area
 - Redirect the flow of material
- Q.4 It is the _____ operation that sets the shape of thermoplastics.
- Heating
 - cutting
 - grinding
 - cooling

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- Q.5 Edge gates are usually located on:
- the 'A' half of the mold
 - the sprue
 - the parting line
 - below the parting line
- Q.6 The usual range of mold draft angles is:
- 5° to 10° per side
 - 1° to 4° per side Bevel
 - 1° to 2° per side
 - 0.5° to 1° per side
- Q.7 The operating temperature for a particular mold will depends on
- Types of plastic material
 - Length of flow
 - Wall thickness
 - All of the above
- Q.8 The properties of the polymer will also depend on the _____ available for cooling.
- Time
 - speed
 - area
 - momentum
- Q.9 Which of the following software can't be categorized application software?
- DBM
 - MS-DOS
 - Spreadsheet
 - Word processing
- Q.10 In any software package, which of the following version represents a major improvement on the earlier version?
- 1.1
 - 1.5
 - 2.0
 - 2.5

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SECTION-B

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

- What is use of mould design.
- Describe mould base.
- What is standard catalogue.
- Give function of allowance in a mould.
- Describe runner.
- Write the principle of components geometry.
- Describe optimal design.
- Write use of drawing norms.
- Define mould data.
- Write one application of a software package.

SECTION-C

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

- Enlist the main properties of mould material.
- Describe standard elements. Give the meaning of designation of standard elements.
- Show the main mould parts with a diagram.
- What is role of shrinkage and allowance in making drawing of a component?
- Write a short note on cooling and heating circuit of a mould.
- Explain the use of data book in mould designing.

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