

- Q.27 Enlist the main applications of software packages in design process.
- Q.28 Write a short note on classification of software packages of CAD.
- Q.29 Explain feed system of mould in detail with diagram.
- Q.30 Explain the use of data book in mould designing.
- Q.31 Explain the process of preparation of work sheet for mould, material and machine.
- Q.32 Explain the construction of a plastic processing mould.
- Q.33 Explain the classification of mould housing and bases.
- Q.34 Write a short note on mould parts.
- Q.35 What is significance of cooling and heating circuits in moulds?

#### 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 elements for a mould. Draw standard element and explain their nomenclature.
- Q.37 Explain the various parts, components and systems of a mould with neat sketch. Give function and importance of each component also.
- Q.38 What are the features need to be calculating before design calculations for a mould? Describe each feature in detail.

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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 What is the function of mould Runner?
- Vent trapped air
  - Provide entry in to the mould cavity
  - Define the mould parting line
  - Provide a path to the mould gates
- Q.2 Which type of process is used for manufacturing of soft drink bottles?
- Extrusion blow moulding
  - Injection blow moulding
  - Stretch blow moulding
  - Continuous blow moulding
- 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 type of product is produced by blow moulding process?  
 a) Solid pin                      b) bush  
 c) bottle                          d) pipe
- Q.5 Which material suitable for making mould in hand blow moulding machine?  
 a) Steel                              b) Gray cast iron  
 c) Aluminium                      d) White cast iron
- Q.6 Which types of heaters are used for hand injection moulding machine?  
 a) Cartridge heater  
 b) Band heaters  
 c) Coil type heaters  
 d) Immersed types heaters
- Q.7 Which type of mould is called Runner less mould?  
 a) Compression mould  
 b) Blow mould  
 c) Cold runner mould  
 d) Hot runner mould
- Q.8 What is the definition of day light?  
 a) Distance between screw and barrel  
 b) Distance between screw and motor  
 c) Distance between the platens  
 d) Distance between the hopper and barrel
- Q.9 Which of the following software can't be categorized application software?  
 a) DBM                              b) MS-DOS  
 c) Spreadsheet                      d) Word processing

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- Q.10 Which part located the sprue bush in an injection moulding.?  
 a) Movable platen              b) fixed platen  
 c) tail plate                      d) screw

### SECTION-B

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

- Q.11 Write an application of standard catalogues.  
 Q.12 Define work sheet.  
 Q.13 Expand BOM.  
 Q.14 Describe allowance.  
 Q.15 Write the use of information data sheet.  
 Q.16 Write full form of CAD.  
 Q.17 Describe standard element.  
 Q.18 Define gating system.  
 Q.19 Describe circuit lay out.  
 Q.20 Give main parts of Injection mould.

### SECTION-C

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

- Q.21 Explain the process of selection of optimal design.  
 Q.22 Draw assembly drawing of a mould and give the information given by assembly drawing.  
 Q.23 Explain the use of process sheet and work sheet.  
 Q.24 Explain the use of design data sheet.  
 Q.25 Describe bill of material. What is its use? Explain.  
 Q.26 Explain the process of machine set-up.

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