

- 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?

- a) Extrusion Moulding
- b) Injection Moulding
- c) Blow Moulding
- d) Compression Moulding

Q.6 Which type of heaters is used for hand injection moulding machine?

- a) Cartridge heater
- b) Band heaters
- c) Coil type heaters
- d) Immersed type heaters

Q.7 Transparent soft-drink bottles are made from which plastic material:

- a) PVC
- b) PET
- c) UF
- d) PP

Q.8 The drawing which represents the rough idea of the actual design is called \_\_\_\_\_

- a) Conceptual Sketch
- b) Conceptual elevation
- c) Conceptual digit
- d) Conceptual parameters

Q.9 \_\_\_\_\_ is known as 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

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Q.10 Which type of polymer material is universally dark and opaque?

- a) Poly ethylene
- b) Poly carbonate
- c) Poly styrene
- d) 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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