

- Q.28 Explain the location and guide system with neat sketch.
- Q.29 Explain advantages of surface treatment.
- Q.30 Describe polishing requirement and technique.
- Q.31 Explain the function and advantages of power assisted polishing kits.
- Q.32 Write a short note on pre moulding technique. Write its function also.
- Q.33 Write the procedure for estimating moulding cost per unit.
- Q.34 Explain the objective of mould maintenance.
- Q.35 Explain the principle of specification of mould material and machine.

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe injection moulding. Explain the various parts and functions of injection moulding machine.
- Q.37 Explain the principle of blow moulding process. Explain the function of various blow mould and its parts.
- Q.38 Explain the function of compression moulding machine. Explain its various parts.

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

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 Bottles for acidic foods like juices are made of
- PTFE (polytetrafluoroethylene)
  - PET (polyethylene terephthalate)
  - Polyamide (nylon)
  - Acrylics (PMMA: polymethyl methacrylate)
- Q.2 Which of the following material is not made by injection molding?
- Nuts
  - Electrical fittings
  - Car handles
  - Tubes
- Q.3 In blow molding, to inflate soft plastic, which medium is used?
- Air
  - Water
  - Oil
  - Alcohol
- Q.4 There is no sprue and runner system in a
- compression mold
  - injection mold
  - extrusion mold
  - all of the above

- Q.5 Which of the following is not counted as mold characteristics?
- Possession of strength
  - Possession of refractoriness
  - Resist corrosion
  - Resist metal penetration in molds
- Q.6 Which of the following is not an application of blow molding process?
- Toy bodies
  - Door liners
  - Bottles
  - Pipes
- Q.7 Which machine molding process will give uniform strength throughout the mold?
- Sand slinging
  - Squeezing
  - Jolt and squeezing
  - Jolting
- Q.8 Which of the following material is not made by injection molding?
- Nuts
  - Tubes
  - Car handles
  - Electrical fittings
- Q.9 Bottles for acidic foods like juices are made of
- PTFE (polytetrafluoroethylene)
  - PET (polyethylene terephthalate)
  - Polyamide (nylon)
  - Acrylics (PMMA: polymethyl methacrylate)
- Q.10 In which of the following molding process strength at top of the mold is less?
- Hand molding
  - Squeezing
  - Jolt and Squeezing
  - Jolting

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## SECTION-B

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

- Q.11 Write an industrial application of plastic.
- Q.12 Describe compression Moulding.
- Q.13 What is pinch off in blow molding?
- Q.14 Define etching.
- Q.15 Describe electroplating.
- Q.16 What is function ejector pin?
- Q.17 Define polishing.
- Q.18 Write the purpose of estimation.
- Q.19 Define storage.
- Q.20 Describe plastic.

## SECTION-C

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

- Q.21 Enlist applications of moulding machine and equipment.
- Q.22 Explain compression moulding process elements.
- Q.23 Explain rotational moulding process.
- Q.24 What is the functions of various thermoforming equipment and process.
- Q.25 Show the different parts of a mould with diagram.
- Q.26 Explain the runner and gate for compression mould.
- Q.27 Explain with neat sketch work cycle of transfer mould.

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