

Q.21 Blow mould are (_____ cheaper / Costlier) in cost as compared to injection mould.

Q.22 The function of neck insert is _____

SECTION-C

Note: Short answer type questions. Attempt any four questions out of five questions. (4x5=20)

Q.23 Explain briefly various moulding defects.

Q.24 Explain extrusion process with diagram.

Q.25 Explain principle and working of a extrusion process with neat sketch.

Q.26 Explain the working of ejector return mechanism.

Q.27 Write short note on safety of moulds.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x25=50)

Q.28 Design and drawing a two plate mold for suitcase handle.

Q.29 Design and drawing a hot runner mould for chair.

Q.30 Design and drawing a three plate injection mold for a 12 mm bolt.

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5th Sem / T & D Subject:- Plastic Mould Design and Drawing

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 How is the die used in injection molding cooled?

- a) Oil
- b) Air
- c) Water
- d) Contact with cold surface

Q.2 Where does the granular molding material get loaded into?

- a) Barrel
- b) Hopper
- c) Pellets
- d) Split

Q.3 How does the piston in the clamping unit move?

- a) Hydraulic energy
- b) Pneumatic energy
- c) Heat energy
- d) Suction

Q.4 What is the minimum temperature allowed for injection moulding process?

- a) 120 degree
- b) 130 degree
- c) 140 degree
- d) 150 degree

Q.5 Which of the following factor is not considered in a ram type injection moulding?

- a) Inner pressure of material
 b) Outer pressure of material
 c) Volume of material
 d) Temperature of material
- Q.6 Which of the following material is not made by injection moulding?
 a) Nut b) Tube
 c) Car handles d) Electrical Fitting
- Q.7 Which of the following product (s) is (are) made by Compression moulding?
 a) Electric plugs b) Pot handles
 c) Dinnerware plates d) All of the above
- Q.8 _____ Moulding is a continuous process, which can be adopted to produce a wide variety of finished or semi-finished products, including pipe, profiles, sheet, film and covered wire.
 a) Rotational b) Injection
 c) Extrusion d) All of these
- Q.9 _____ A method of producing hollow articles from many of the thermoplastic material, which are available as granular or powder form.
 a) Rotational b) Injection
 c) Blow d) All of these
- Q.10 The process of shaping hot sheet of thermoplastic into desired shape by mechanical method is called _____.
 a) Rotational b) Thermoforming
 c) Blow d) All of these

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x2=20)
- Q.11 Draft angle is the angle provided for _____.
- Q.12 Components from injection moulding process are made very expensive due to the application of very costly equipment. (True/False)
- Q.13 The flow of plastic in the mold cavity is more proper and smooth if the thickness of the component made is very small. (True/False)
- Q.14 Complex shape of parts or components cannot be formed by the injection moulding process. (True/False)
- Q.15 The barrel is used for opening and closing of the mould. (True/False)
- Q.16 _____ is a moulding process in which the molten metal is injected under high pressure and velocity into a split mould die.
- Q.17 In _____ process the mould parts are heated and slowly cooled.
- Q.18 Cavity surface should be highly polished and finished (True/False)
- Q.19 Trial of mould should be taken on injection machine after making the mould. (True/False)
- Q.20 Cooling system is present in center fed die or not?

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