

- Q.25 Discuss cost economics.
- Q.26 Explain various type of shapes used in plastic product design.
- Q.27 Explain positioning of holes.
- Q.28 State various stages of new product development.
- Q.29 Explain importance of wall thickness in plastic design.
- Q.30 Write short note on shapes used in plastic product designing.
- Q.31 Discuss fillet and radius.
- Q.32 Explain various methods used for preparing textured patterns.
- Q.33 Explain ribs and bosses (With neat sketch)
- Q.34 Explain Surface finish used in plastic product design.
- Q.35 Explain various mechanical requirements of plastic product design.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Discuss Product life cycle and feasibility study.
- Q.37 Explain various preliminary design considerations used in plastic product design.
- Q.38 Write short note on :
- Various materials and their selection criteria
 - Texturing and its manufacturing methods

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6th Sem /
Branch : Plastic, Chem Engg. (Spl. Polymer Tech)
Sub. : Plastic Product Design

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Preliminary design considerations are needed to _____.
 a) Reduce cost
 b) To calculated direct raw materia cost
 c) For better design
 d) All of these
- Q.2 Designs are periodically modified to _____.
 a) Improve product performance
 b) Strive for zero-based rejection and waste
 c) Make products easier and faster to manufacture
 d) All of the above
- Q.3 Method of adhesion, in which parent materials is used as dope is known as _____.
 a) Solvent adhesion b) Solvent cementing
 c) Solvent doping d) None of the above
- Q.4 Alphabets and letters are generally used for _____.
 a) Identification of shift

- b) For displaying company logos
 c) For texturing effect
 d) All of these
- Q.5 _____ should be the draft angle used in plastic products.
 a) 50 b) 1/80
 c) 40 d) 1/20
- Q.6 Texturing will leads to _____ in mould.
 a) Change in dimensions
 b) Reduction in dimension
 c) Increase in dimensions
 d) None of the above
- Q.7 What should be the minimum distance between two consecutive holes _____.
 a) d b) 2xd
 c) 3xd d) 4xd
- Q.8 Which is not an example of gate used in plastic processing
 a) Fan b) Ring
 c) Sprue d) Diaphragm
- Q.9 Name the solvent used for PMMA
 a) MEK b) MCI
 c) Benzene d) Ethanol
- Q.10 Which shapes requires great accuracy and tolerance in PPD?
 a) Plain utility b) Engineering Shapes
 c) Artistic shapes d) All of the above

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name two main types of moulded insert.
 Q.12 Give two advantages of Ribs.
 Q.13 Instead of having one heavy rib, we should design two thin ribs. (True/False).
 Q.14 Which gas is used in hot gas welding?
 Q.15 Dope cement generally contains _____ % of parent resins.
 Q.16 MEK stands for _____.
 Q.17 What is the drilling angle used in plastic product.
 Q.18 Name two permanent joining methods used in plastic assembly.
 Q.19 Line formed by meeting of two parallel flow fronts in known as _____.
 Q.20 Name different types of undercut.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain various processing limitations in plastic product design.
 Q.22 Write short note on undercuts.
 Q.23 Discuss tolerance and its types.
 Q.24 Write short note on letters and alphabets used in plastic product design.