

- Q.25 Explain Gas assisted injection moulding technique .
 Q.26 Explain advantages and disadvantages of multi-layer packaging process.
 Q.27 Describe plastic -paper laminates.
 Q.28 Explain sandwich foam moulding process.
 Q.29 Explain Ram accumulator extrusion process.
 Q.30 Discuss insert injection moulding
 Q.31 What are the advantages of multilayered packaging.
 Q.32 What are the uses of Plastic metal laminates.
 Q.33 Write short note on melt spinning process.
 Q.34 What are the uses of wet spinning process in textile .
 Q.35 What are the advantages of multilayered blown film.

SECTION-D

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

- Q.36 Explain two colour injection moulding process principle , working with suitable diagram
 Q.37 Explain Reaction injection moulding process in detail, with neat diagram.
 Q.38 Write short note on
 a) Coextruded Sheets
 b) Corrugated Sheets

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6th Sem / Plastic Engineering Subject:- Plastic Processing Techniques-IV

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 What part of extruder transmits the torque of the motor to the extruder screw ?
 a) Motor b) Screw
 c) Gear d) Die
 Q.2 It is a cylindrical strong metal tube where the material is fed, heated, melted, mixed and pushed by the screw forward?
 a) Screw b) Hopper
 c) Adapter d) Barrel
 Q.3 What is the name of term used for the weight of plastic that can be injected by single shot ?
 a) Shot weight b) Moulding cycle
 c) Capacity d) Injection speed
 Q.4 Stretching can improve the strength of end products.
 a) True b) False

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- Q.5 What is the part of injection machine that pushes the product out from the mold ?
 a) Ejector b) Injection screw
 c) Clamping unit d) Cooling system
- Q.6 A plastics bottle is formed inside the mold cavity by blowing the parison with
 a) Compressed air b) Chilled water
 c) Hydraulic oil d) Hot water
- Q.7 Molten resin extruded from a die becomes larger than the die opening. This the phenomenon known as .
 a) Draw down b) Die swell
 c) Bent parion d) None of the these
- Q.8 Extrusion gives continuous products with constant cross section.
 a) True b) False
- Q.9 The two main type of foamed plastics are polystyrene (PS) and
 a) Polyethylene (PE)
 b) Polyurethane (PU)
 c) Polyvinyl Chloride (PVC)
 d) Polypropylene (PP)
- Q.10 What is the end part of extruder where the pipe is being formed ?
 a) Hopper b) Screw
 c) Barrel d) Die

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Explain the term RIM.
 Q.12 Which unit is used to expressed the injection speed.
 Q.13 Name two materials used in multi-Layer packaging
 Q.14 Which part converts the melt plastic into tubularshape ?
 Q.15 What is meant by L/D ratio ?
 Q.16 Which instrument is used to measure thickness offilm ?
 Q.17 Which process is used for manufacturing of soft-drink Bottles ?
 Q.18 What is the function of plunger in Injection Moulding Machines?
 Q.19 Which types of Heaters is used in Injection Moulding Machines Barrel ?
 Q.20 What is the function of tie bar ?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain the use of Robotics in Plastic processing.
 Q.22 Discuss co-extrusion of sheets
 Q.23 Explain Profile Extrusion process.
 Q.24 What are the advantages of Tie-bar less injection molding machine