

- 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
- Coextruded Sheets
  - Corrugated Sheets

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### 6<sup>th</sup> 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 ?
- Motor
  - Screw
  - Gear
  - Die
- Q.2 It is a cylindrical strong metal tube where the material is fed, heated, melted, mixed and pushed by the screw forward?
- Screw
  - Hopper
  - Adapter
  - Barrel
- Q.3 What is the name of term used for the weight of plastic that can be injected by single shot ?
- Shot weight
  - Moulding cycle
  - Capacity
  - Injection speed
- Q.4 Stretching can improve the strength of end products.
- True
  - False

- 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 parison                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 express the injection speed.
- Q.13 Name two materials used in multi-Layer packaging
- Q.14 Which part converts the melt plastic into tubular shape ?
- Q.15 What is meant by L/D ratio ?
- Q.16 Which instrument is used to measure thickness of film ?
- 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