

- Q.24 Write short note on melt spinning process.
 Q.25 Explain metal - plastic laminates and their applications.
 Q.26 Explain advantages of Multi-layer blown films.
 Q.27 Discuss blow up ratio and its importance in blown film process.
 Q.28 Write short note on melt spinning process.
 Q.29 Discuss atleast five defects and remedies in blow moulding process.
 Q.30 Discuss polymer processing in textile industries.
 Q.31 Discuss reaction injection moulding.
 Q.32 Explain sandwich foam moulding.
 Q.33 Discuss co-extrusion of sheets.
 Q.34 Explain two colour injection moulding process.
 Q.35 Discuss various dies and their applications in extrusion process.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
 Q.36 Discuss gas assisted injection moulding and their advantages.
 Q.37 Explain:
 a) Injection stretch blow moulding
 b) Insert injection moulding technique
 Q.38 Discuss :
 a) Post treatment of fibers in textile industry
 b) Tie bar less injection moulding machine

No. of Printed Pages : 4

Roll No.

182263

**6th Sem / Branch : Plastic Engineering
Sub. : Plastic Processing Techniques-IV**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which types of Heaters is used in Injection Moulding machines Barrel?
 a) Cartridge Heaters
 b) Band Heaters
 c) Coil Type Heaters
 d) Immersed Type Heaters
 Q.2 _____ is the function of plunger in Injection Moulding Machines
 a) Melt the material
 b) Push the material into the mould
 c) Cool the material
 d) Eject the moulded part
 Q.3 Which type of process is used for manufacturing of soft-drink Bottles?
 a) Extrusion Blow Moulding
 b) Injection Blow Moulding
 c) Stretch Blow Moulding
 d) Continuous Blow Moulding

- Q.4 Which media is used to inflate the soft plastic in blow moulding process?
 a) Air b) Water
 c) Oil d) Soap solutions
- Q.5 Which instrument is used to measure thickness of film?
 a) Vernier calliper b) Digital micrometer
 c) Micrometer d) Vernier depth gauge
- Q.6 What is meant by L/D ratio?
 a) Length to diameter ratio
 b) Lift to drag ratio
 c) Length to developed ratio
 d) Length to draw ratio
- Q.7 What is the standard Helix angle of screw?
 a) 15" b) 16"
 c) 17.7" d) 19.8"
- Q.8 Coating is bonding of two or more layers
 a) True b) False
 c) May be true or false d) None of the above
- Q.9 Which of the following plastics is used in the Lamination of Paperboard?
 a) LDPE b) PS
 c) PVC d) HDPE
- Q.10 Which of the following polymers are used as fibre?
 a) Poly-tetra-fluoro-ethane
 b) Poly chloroprene
 c) Nylon
 d) None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 In extrusion moulding, the function of screen pack is to _____.
- Q.12 Production rate of injection Blow Moulding Method is (Lower/Higher) Than of Extrusion Blow moulding.
- Q.13 Give two advantages of SBM over EBM.
- Q.14 _____ is the minimum thickness required by the plastic for vacuum forming.
- Q.15 Name two plastic fibers used in textile industry.
- Q.16 Which part converts the melt plastic into tubular shape?
- Q.17 _____ defect is found inside the product when there is moisture in blowing air?
- Q.18 What defect will occur if the die damaged or dirty in blow moulding?
- Q.19 Cross sectional area of parison to that of area of die opening is known as _____.
- Q.20 Give two applications of plastic - Plastic laminates.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain lost core injection moulding machines.
- Q.22 Explain High pressure foam moulding.
- Q.23 Explain difference between injection and extrusion blow moulding.