

No. of Printed Pages : 4
Roll No.

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3rd Sem / Plastic Technology
Subject : Plastic Processing Techniques - I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory
(6x1=6)

- Q.1 Function of die
a) 2D b) 3D
c) Both A & B d) All of these
- Q.2 In extrusion molding generally uses
a) Thermoplastic material
b) Thermoset material
c) Decreases temp.
d) None of these
- Q.3 Breaker plate is a
a) Metallic disk with small holes
b) Metallic disk without holes
c) Both a & b
d) None of these

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- Q.4 Counter rotating screws are
a) Clock wise b) Anti clock wise
c) Can not say d) None of these
- Q.5 Root diameter is also known as
a) Major diameter b) Minor diameter
c) Can not say d) None of these
- Q.6 Function of screw
a) To convey the melted material
b) Developed pressure
c) Mixing
d) All of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Write the function of feed zone.
- Q.8 Function of breaker plate.
- Q.9 Define helix angle.
- Q.10 Function of thrust bearing.
- Q.11 Write two product molded by extrusion molding.
- Q.12 Write function of adaptor plate.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 Explain general principle and operation of extruder.

- Q.14 Write functions of nip rolls and its significance.
- Q.15 Write types of screw used in extrusion molding.
- Q.16 Write short note on vented barrel screw.
- Q.17 Draw a neat sketch of die and explain its uses?
- Q.18 Write short note on stretching.
- Q.19 Discuss die swell in brief.
- Q.20 Explain L/D ratio and its significance.
- Q.21 State process of blown film extrusion with diagram.
- Q.22 Explain scrap and cold trimming in calendering process.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

- Q.23 Write short note on
a) Cutting devices
b) Die swell
- Q.24 Explain extruder and their types , discuss any one of them with neat sketch.
- Q.25 State advantages of calendering over extrusion.