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Time : 3 Hrs. M.M. : 60

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

- $$(60) \quad (4) \quad 222231 \quad (1) \quad 222231$$

- 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. (6x1=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. (8x4=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. (2x8=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.