

- Q.26 Explain Compression moulding by giving suitable example.
- Q.27 Discuss bubble casing.
- Q.28 Give four troubleshoots of calendering process.
- Q.29 Briefly explain extrusion of wire and cables.
- Q.30 State importance of compression and metering zone
- Q.31 Explain hot stamping process.
- Q.32 Name various types of calendar rolls and also draw their sketch.
- Q.33 Explain flexographic printing.
- Q.34 Discuss objective and need of maintenance.
- Q.35 Give advantages of calendering over extrusion.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$

- Q.36 Explain :
- Screen printing process.
 - Various types of screw used in plastic extrusion.
- Q.37 Write short note on :
- Twin screw extruder
 - Extrusion of pipes
- Q.38 Explain construction and working principles of single screw extruder with label diagram.

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3rd Sem / Plastic Tech. Subject:- Plastic Processing Techniques - 1

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

- Q.1 Injection moulding process is most typically used for _____.
- Thermoset materials
 - Thermoplastic materials
 - Glass
 - Composites
- Q.2 In extrusion process, cross section of product at any point is _____.
- Irregular
 - Different
 - Non uniform
 - Same
- Q.3 In the _____ process, thermoplastic resins are melted and injected into a mold.
- Extrusion Moulding
 - Compression Moulding
 - Injection Moulding
 - Thermoforming

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- Q.4 At end of the _____ the mold is opened and the part is ejected.
 a) Melting stage b) Injection stage
 c) Filling stage d) Cooling stage
- Q.5 In compression zone _____ takes place.
 a) Pumping b) Feeding
 c) Drying d) Plasticizing
- Q.6 Hot stamping is used on _____.
 a) Thin plastic product b) Thick plastic product
 c) Film d) All of these
- Q.7 Extrusion is a _____ process.
 a) Continuous b) Batch
 c) Simple d) Non uniform
- Q.8 Which of the following is not a type of calender roll?
 a) I type b) L type
 c) Z type d) M type
- Q.9 A die can have _____.
 a) Single orifice b) Many orifice
 c) One hole d) One screw
- Q.10 _____ maintenance is a regular period planned maintenance, which eliminates breakdown.
 a) Routine b) Preventive
 c) Corrective d) Operational

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 A _____ is used to get the required profile in extrusion process.
- Q.12 The extrudate is cut into desired length in the _____.
- Q.13 Name two type of maintenance.
- Q.14 Give one remedy to remove flash.
- Q.15 Name two products made by extrusion process.
- Q.16 The portion of screw which prevents the escape of material, is _____.
- Q.17 _____ enhances mixing of material.
- Q.18 Name two types of calendar roll.
- Q.18 Give one application of pad printing.
- Q.20 _____ also serves as the filter for the melt.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain function of breaker plate and screen pack.
- Q.22 Explain L/D ratio and its importance.
- Q.23 Discuss predictive maintenance.
- Q.24 Explain basic principle of extrusion process.
- Q.25 State principle of rotational moulding.