

- Q.26 Explain importance of stretching and orientation in extrusion.
- Q.27 Explain breakdown maintenance.
- Q.28 Explain materials used in calendaring.
- Q.29 Explain hot stamping process.
- Q.30 Discuss Extruder performance and their curves.
- Q.31 Explain pad printing.
- Q.32 Give five defects of extrusion process.
- Q.33 Give four troubleshoots of calendaring process.
- Q.34 Discuss objective of maintenance.
- Q.35 Give advantages of twin screw extruder.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain with diagram extrusion process for sheet and filaments.
- Q.37 Explain:
- Screen printing process.
 - Various types of screw used in plastic extrusion
- Q.38 Write short note on :
- Heating and cooling system of calendaring process.
 - Flexographic printing

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Plastic Engineering Subject:- Plastic Processing Techniques - I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Dimensional distortion in a plastic object after molding is known as_____.
- Slippage
 - Flash
 - Warping
 - Leakage
- Q.2 In extrusion process, cross section of product at any point is_____.
- Irregular
 - Different
 - Non Uniform
 - Same
- Q.3 _____also serves as filter for the melt.
- Screen Pack
 - Screw
 - Barrel
 - Choke ring
- Q.4 Name the printing process in which finished part look like metal is_____?
- Screen Printing
 - Rotogravure
 - Pad printing
 - Electroplating

- Q.5 A die can have one or more _____ through which the melt can flow
- a) Cores b) Cavities
c) Orifices d) Core pins
- Q.6 Injection moulding machine is used mainly for materials
- a) Thermoplastic b) Thermoset
c) Rubbers d) Composites
- Q.7 The plastic material is passed in to the mould through _____ from the nozzle of the screw.
- a) Barrel b) Hopper
c) Sprue d) Gate
- Q.8 Condition monitoring is the basis for _____ maintenance
- a) Breakdown b) Predictive
c) Corrective d) Operational
- Q.9 The process involved in converting rubber into thin sheet or coating it on fabric is called _____.
- a) Extrusion b) Calendering
c) Mastication d) Vulcanisation
- Q.10 What type of maintenance is most effective?
- a) Routine b) Preventive
c) Corrective d) Operational

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Give two applications of rotational moulding.
- Q.12 _____ is the steel rod that moves forward pushing the mold, when the mold opens.
- Q.13 Name two products made by Compression moulding.
- Q.14 _____ die used in wire and cable coating
- Q.15 L/D ratio stands for _____.
- Q.16 Define breaker plate.
- Q.17 Define preventive maintenance.
- Q.18 Name three types of calender rolls used in calendering process.
- Q.19 _____ maintenance is a regular period planned maintenance, which eliminates breakdown.
- Q.20 Give two applications of flexographic printing.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss installation and commissioning of extruder.
- Q.22 Explain Compression ratio and its importance.
- Q.23 What is preventive maintenance?
- Q.24 Explain die swell.
- Q.25 Discuss cutting devices used in extrusion.