

- Q.26 Explain Compression moulding by giving suitable example.
- Q.27 Discuss bubble casing.
- Q.28 Give four troubleshoots of calendaring 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 calendaring over extrusion.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=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 (10x1=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

- 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 calendar 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.