

- Q.26 Write a short note on compression moulding

Q.27 Write a note on die swell. give two factors which affect the same.

Q.28 Define L/D ratio of extruder screw. Write its any two reasons.

Q.29 Give five points in favour of maintenance.

Q.30 What is screen Pack and breaker plate. Give two functions of each

Q.31 Draw a neat and labelled sketch of filament winding process.

Q.32 Write down two significance each of stretching and orientation w.r.t. plastics films

Q.33 Write a short note on finishing of calendar rolls.
What is the significance of finishing.

Q.34 Draw a graph to show the effects of rpm of extruder screw on extruder output.

Q.35 Write a note on most common method of roll heating in calendering process.

SECTION-D

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

- Q.36 Write a note on
a) Single screw extruder.
b) Vented barrel extruder.

Q.37 With a neat and labelled sketch , Write the technique of flexographic printing process

Q.38 With a neat and labelled diagram , Write the process of upward blown film process.

No. of Printed Pages : 4
Roll No.

182232

**3rd Sem / Plastics technology
Subject:- Plastics processing techniques-I**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of following process, is the example of processing of polymer in melt state.

 - Injection Moulding
 - Compression moulding
 - Extrusion
 - All of above

Q.2 TSE stands for

 - Two screw extruder
 - Three screw extruder
 - Twin screw extruder
 - None of above

Q.3 Which of following zone of extruder is also called pumping zone

 - Feed Zone
 - Compression Zone
 - Metering Zone
 - Die Zone

Q.4 Nip rolls is a term used in

 - Extrusion Blow Moulding Process
 - Blown Film process

(40)

(4)

182232

(1)

182232

- c) Filament Extrusion process
 d) Pipe Extrusion process
Q.5 Which of the following is the most commonly used material in calendering process
 a) PE b) PS
 c) PVC d) PMMA
Q.6 In pad printing process the pads are most commonly made up of which of following material
 a) PE b) Epoxy Resin
 c) Silicone rubber d) ABS
Q.7 Which of following process is most commonly used to mould overhead water storage tank
 a) Injection Moulding
 b) Extrusion
 c) Compression Moulding
 d) Rotational Moulding
Q.8 Products formed by dies are
 a) 1D b) 2D
 c) 3D d) 4D
Q.9 In which of following process die zone is present
 a) Injection Moulding
 b) Extrusion
 c) Compression Moulding
 d) Rotational Moulding
Q.10 Which of following printing technique is also called offset gravure printing process.
 a) Flexographic b) Gravure
 c) Pad d) Screen

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define maintenance.
 Q.12 Define printing
 Q.13 Name the material which is most commonly used to make calendar rolls.
 Q.14 Give difference between film and sheet .
 Q.15 Expand the term SSE
 Q.16 Define Die
 Q.17 Give one product made by rotational moulding .
 Q.18 Name the process in which bubble casing is used.
 Q.19 Give one advantage of calendering process over extrusion process.
 Q.20 Give one difference Pipe and tube.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 With a neat sketch write down the process of hot stamping
 Q.22 With a neat sketch write down the process of L-type calendar.
 Q.23 Write down the steps involved in processing of plastics pipes.
 Q.24 Write any two points , with reasons , which you will consider during installation of extruder.
 Q.25 Write two type of winding equipment used in plastics Industry.