

- 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 calendaring process.

SECTION-D

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

- Q.36 Write a note on
- Single screw extruder.
 - 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.

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Roll No.

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

- c) Filament Extrusion process
- d) Pipe Extrusion process
- Q.5 Which of the following is the most commonly used material in calendaring 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

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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 calendaring 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.

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