

Q.30 Write four processing parameters of calendering.

Q.31 Write five advantages of FRP.

Q.32 Write down two factors and Explain them in short, which must be considered before machining plastics.

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 With a neat & Labelled diagram, Write the process of pultrusion.

Q.34 With the help of neat & Labelled diagram. Write the process of Z-type calendering, along with all down stream equipment.

Q.35 With the help of neat & Labelled diagram write the process of POT type transfer molding.

Q.36 Write down the various process variables & their effect on product properties in compression molding process.

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**6th Sem. / Plastic Engg.**

**Subject : PPT-III (Plastic Processing Techniques-III)**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

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

Q.1 MFI of material used in Rotational molding process is less than\_\_\_\_\_.

Q.2 The expandable bed foams have densities in the range of \_\_\_\_\_to\_\_\_\_\_.

Q.3 Plunger type transfer molding technique uses a conventional compression molding press. (True/False)

Q.4 Nylon material is used in Thermoforming technique. (True/False)

Q.5 Expand the term CBA.

Q.6 Calendering process is used to make \_\_\_\_\_and\_\_\_\_\_.

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- Q.7 Expand the term MFI.
- Q.8 What is Breathing in compression molding process.
- Q.9 Expand the term SMC.
- Q.10 What is difference between film & sheet.

### SECTION-B

**Note:**Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 Name two plastics welding Techniques.
- Q.12 Define cutting process.
- Q.13 Name starting materials for casting epoxy resins.
- Q.14 Define bulk density.
- Q.15 Why heat stabilizers are used in PVC material.
- Q.16 Define the term plastic processing.
- Q.17 What is the basis difference between vacuum forming & pressure forming technique.
- Q.18 Why calender rolls are drilled in centre.
- Q.19 Name two blowing agents.

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- Q.20 Define Tonnage in compression molding process.
- Q.21 Write two materials used in thermoforming technique.
- Q.22 Define Bio Polymers.

### SECTION-C

**Note:**Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Write a note on melt deformation techniques, used in plastics processing.
- Q.24 Define day light in compression molding machine.
- Q.25 Write down the process of making DMC.
- Q.26 With a Labelled diagram, write the process of resin transfer molding.
- Q.27 Write any two faults and their remedies in thermoforming technique.
- Q.28 Write a short note on one process used to cast polyesters.
- Q.29 Write a short note on free forming technique.

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