

- Q.28 Name different types of rotational moulding machines. Explain any one in short.
- Q.29 State four defects in vacuum forming process and their remedies.
- Q.30 Explain Hand lay-up technique for FRP.
- Q.31 Discuss for applications of compression moulding.
- Q.32 Write short note on vacuum forming.
- Q.33 Explain pot capacity in Transfer moulding.
- Q.34 Discuss foam moulding process.
- Q.35 State four defects in transfer moulding process and their remedies.

Section-D

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

- Q.36 With the help labelled diagram, explain transfer moulding process in details.
- Q.37 Write short note on :
- Plug assisted forming
 - Pultrusion technique for FRP.
- Q.38 Discuss :
- Types of calendar rolls with diagram.
 - Working of compression moulding machine.

B)

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Plastic Engineering Subject : Plastic Processing Techniques-III

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What is the speed of mould rotation in rotational moulding?
- 40 rotations/minute
 - 20 rotations/minute
 - 30 rotations/minute
 - 25 rotations/minute
- Q.2 Which kind of fibre is widely used in FRP?
- Asbestos fibre
 - Ceramic fibre
 - Banana fibre
 - Glass fiber
- Q.3 Which angle rotational moulding machine rotates?
- 360
 - 180
 - 90
 - 120
- Q.4 What defect occurs when moisture is present in the raw material of compression mould?
- Warping
 - Blistering
 - Thick flash
 - Mould sticking
- Q.5 What is the term for volatile gases that escape from moulds during compression moulding?
- Shaping
 - Culling

- c) Breathing d) Flashing
- Q.6 What is the ideal material for processing in compression mounting?
- a) Plastics
b) Thermoplastic
c) Thermo setting plastics
d) None Ferrous materials
- Q.7 Which process is used in making FRP articles?
- a) Injecting moulding b) Blow moulding
c) Hand lay up d) Transfer moulding
- Q.8 Which of the following process makes epoxy mould?
- a) Casting b) Machining
c) Hot press moulding d) Injection moulding
- Q.9 What is expansion of the FRP?
- a) Fibre Reinforced Plastics
b) Fibre Reinforced Panel
c) Fibreglass Reinforced Panels
d) Fibreglass Reinforce Plywood
- Q.10 What is the name of the process in which materials is preheated in one chamber and moulded in another chamber by application of heat and pressure?
- a) Compression mould b) Transfer mould
c) Rotational mould d) Hand lay-up

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Name two defects in compression moulding process.
- Q.12 How many plates are there in the moulds for transfer moulding process?
- Q.13 Name two defects of FRP moulding.
- Q.14 Which process makes water storage tank?
- Q.15 Name two products made by calendaring process.
- Q.16 Foam generally consists of _____ structure.
- Q.17 Give two types of blow moulding process.
- Q.18 Expand DMC _____.
- Q.19 Name two products made by pultrusion.
- Q.20 Give two advantages of Drap forming?

Section-C

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

- Q.21 Explain general principle of compression moulding process.
- Q.22 Discuss various types of welding.
- Q.23 How wall thickness is controlled in rotational moulding.
- Q.24 State basic principle of Transfer moulding machine.
- Q.25 State major applications of calendaring process.
- Q.26 Discuss casting of polyesters.
- Q.27 Explain importance of mould venting.