

- Q.21** Which material is usually used in Injection stretch moulding. Justify your answer.

**Q.22** Out of Blow moulding process and Rotational moulding process. which process gives Stress free product, Justify your answer.

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## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write and define four defects, their causes and remedies during injection moulding process.

Q.24 Write any four materials, which are used in blow moulding process. Write two properties and two applications of each.

Q.25 Write and explain, the steps involved during moulding of product using Rotational moulding Process.

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The term Preform is associated with

  - a) EBM
  - b) IBM
  - c) Both a & b
  - d) Neither a nor b

Q.2 Rotational Moulding gives products which have

  - a) Hollow shape
  - b) Solid shape
  - c) Both a & b
  - d) Neither a nor b

Q.3 Injection moulding machine is designed on the basis of

  - a) PE
  - b) PS
  - c) PVC
  - d) PC

Q.4 If the temperature of melt is increased, its viscosity will

- a) Increase
- b) Decrease
- c) Remain same
- d) All of the above

Q.5 As compare to thick blow moulded article, the moulding of thin blow moulded article requires

- a) Less air pressure
- b) More air pressure
- c) Same air pressure
- d) All of above

Q.6 The shape of barrel in Injection moulding machine is

- a) Square
- b) Elliptical
- c) Round
- d) Rectangular

## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Both thermoplastic and thermoset materials can be used in Rotational moulding process. (T/F)

Q.8 Define parison.

Q.9 By processing thermoset materials in injection moulding process, we can get product with variable wall thickness. (T/F)

Q.10 Define cycle time in Plastic process.

Q.11 Define moulding venting.

Q.12 Expand term rpm.

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write the steps involved in Startup procedure of Injection moulding machine.

Q.14 With a neat sketch, write about parison programming.

Q.15 Write any four products made by Rotational Moulding process.

Q.16 Draw a neat sketch of hand operated Injection moulding machine.

Q.17 How will you select amount of material required to make a product using Rotational moulding machine.

Q.18 What is minimum mould thickness, how is it related to daylight of machine.

Q.19 Whether extruder plays any role in moulding irregular shape products, justify your answer.

Q.20 What is internal and external heating produces during injection moulding process. Give their significance.