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## 5th Sem / Plastic Technology

**Subject : Plastic Processing Techniques - III**

M.M. : 60

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

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

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- 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.

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- 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 mouldiing irregular shape products, justify your answer.
- Q.20 What is internal and external heating produces during injection moulding process. Give their significance.

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