Q25 Define following

a) Injection Rate b) Melt Viscosity

c) Shot weight d) Short Shot

Roll No. .....

5th Sem.

Branch : Plastic Technology

Subject : Plastic Processing Techniques -III

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

Q.1 The part of injection moulding machine, which facilitate positive connection of screw barrel system with mold is

a) Hopper b) Screw

c) Nozzle d) Heater

Q.2 The containers with handles of refined oil have

a) Regular Shapes b) Irregular shapes

c) Both A & B d) None of above

Q.3 Stress free hollow products are made by

a) Blow moulding b) Injection Moulding

c) Rotational Moulding d) All of above

Q.4 The total time elapsed to make a product in any processing techniques is called

a) Production Time b) Part Time

c) Inventory Time d) Cycle Time

Q.5 When we stretch a perform its thickness

a) Increases b) Decreases

c) Remains same d) None of above

Q.6 The most common system of mould heating in Rotational moulding process is

a) Convection Heating b) Conduction Heating

c) Oil heating d) Steam Heating

Section-B

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

Q.7 What is the ratio of rpm of minor of major axis in rotational moulding machine?

Q.8 Expand the term ISBN.

Q.9 What is the effect of heating on plastics melt?

Q.10 Define mould venting.

Q.11 What is the value of helix angle in the screw of injection moulding machine.

Q.12 Define compression ratio of Screw.

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

Q.13 Write any one method with a neat sketch to vent a typical Blow mould.

Q.14 What do you mean by optimization of injection moulding cycle. How will you obtain it?

Q.15 Write any two defects, their causes and remedies in rotational moulding process.

Q.16 Draw a neat sketch of Piston Cylinder type hydraulic motor. Give its working.

Q.17 Write any two defect, their causes and remedies in Blow moulding process.

Q.18 What is perform, how it is formed, give its significance.

Q.19 With a neat sketch give the hydro mechanical system of Clamping in injection moulding machine. Give its working.

Q.20 Define BUR. Give its significance.

Q.21 Give the difference between ST Type and SP type machine.

Q.22 Define daylight of injection moulding machine. Give and define its types.

Section-D

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

Q.23 What is parison programming, why is it used, Draw a neat sketch to obtain parison programming.

Q.24 Write a note on following specifications of Injection moulding machine.

a) Clamping Tonnage b) Shot Capacity

c) Line pressure d) Injection Pressure