

SECTION-D

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

Q.23 Explain:

- a) Limiting Oxygen Index
- b) Dielectric Constant

Q.24 Explain with neat sketch, various types of pendulum impact test with standard and specifications.

Q.25 Discuss :

- a) Creep & stress relaxation
- b) Rockwell-Hardness test.

No. of Printed Pages : 4

222244

Roll No.

4th Sem / Plastic Technology

Subject : Plastic Testing and Quality Control.

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The ability of the material to withstand tensile force, without breaking, is known as _____.

- a) Yield strength
- b) Tensile strength
- c) Compressive Strength
- d) Creep Strength

Q.2 The temperature at which plastics begin to become softer and defer under a load is known as _____.

- a) Softening Point b) Melting point
- c) Eutectic point d) Heat distortion point

Q.3 What is the attribute of a material which resists the flow of electricity known?

- a) Conductivity b) thermoelectricity
- c) Dielectric strength d) Resistivity

- Q.4 The tendency of a deformed solid to regain its actual proportions instantly upon unloading known as _____.
- a) Perfectly elastic b) Delayed elasticity
c) Inelastic effect d) Plasticity
- Q.5 The permanent mode of deformation of a material known as _____.
- a) Elasticity
b) Plasticity
c) Slip deformation
d) Twinning deformation
- Q.6 ASTM D 1238 is the standard for _____ test.
- a) Tensile test b) Flexural test
c) Flame test d) MFI

SECTION-B

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

- Q.7 Expand ASTM.
- Q.8 ASTM D792 is the standard test number for _____ test.
- Q.9 Izod and charpy test are used for _____ property of plastics
- Q.10 Name two short term mechanical properties.
- Q.11 MFI stands for _____.
- Q.12 Name the test used for checking the impact strength of plastic films.

SECTION-C

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

- Q.13 Explain surface and volume resistivity test for plastic.
- Q.14 Explain test for finding water absorption in plastic samples.
- Q.15 Explain test for heat deflection temperature
- Q.16 Discuss light transmittance test.
- Q.17 Discuss flame test for identification of plastic
- Q.18 Explain Gloss test for plastics.
- Q.19 Explain smoke density test for plastics
- Q.20 Explain flexural or fatigue bending test for plastics.
- Q.21 Discuss abrasion resistance test for plastics
- Q.22 Discuss Environmental stress Cracking resistance test for plastics.