

- Q.26 Explain abrasion resistance test of plastic materials.
- Q.27 How to identify the plastics. Explain any one of them
- Q.28 Write test procedure of compression strength of plastic material.
- Q.29 Explain Charpy test of plastic material.
- Q.30 Explain melt flow index of plastic materials.
- Q.31 Explain test of cone and plate rheometer.
- Q.32 How to conduct VST test of plastic sample.
- Q.33 Explain water absorption test for plastic material.
- Q.34 What are the basic concept of Statistical Quality Control (SQC) and their tools?
- Q.35 Explain P chart and C chart of quality control.

SECTION-D

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

- Q.36 Define thermal properties of plastic materials. Explain Differential Scanning calorimetry (DSC) techniques in detail.
- Q.37 Write short note on
a) Refractive index b) Melting point
- Q.38 Write short note on
a) Solubility test b) Tear test

No. of Printed Pages : 4

182244

Roll No.

4th Sem / Plastic Subject:- Plastic Testing - I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Density is defined
a) Mass/volume b) Volume/Mass
c) Both A& B d) None
- Q.2 Unit of melt flow index
a) gram/min. b) gm/10 min
c) gm/20 min d) None
- Q.3 Thermoplastic are crosslinked
a) True b) False
c) Cannot say d) None
- Q.4 Non recyclable plastic is
a) Thermoset b) Thermoplastics
c) Both A & B d) None
- Q.5 Which material is heat sensitive
a) PVC b) ABS
c) PP d) PTFE

- Q6 The ability of material to with stand tensile force without breaking is known as
- Tensile strength
 - Yield strength
 - Compressive strength
 - None
- Q.7 Which one of the following decreases the tensile strength
- Temp.
 - Cold working
 - Both A & B
 - None
- Q8 Standard specimen has V notch of _____ Depth
- 1 mm
 - 2 mm
 - 3 mm
 - 4 mm
- Q.9 Time dependent properties
- Creep
 - Tensile strength
 - %age elongation at breaks
 - None
- Q.10 Specific gravity of PVC is
- 1.32
 - 1.45
 - 2.48
 - 3.0

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand BIS.
- Q.12 Expand FTIR.
- Q.13 Expand DIN.
- Q.14 Define standard.
- Q.15 Define Specification.
- Q.16 Write formula of percentage of water absorption.
- Q.17 Write SI unit of tensile strength.
- Q.18 Write conditioning of plastic testing.
- Q.19 Define kaizen.
- Q.20 Define bulk density.

SECTION-C

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

- Q.21 How to conduct flexural strength of plastics material.
- Q.22 Explain HDT test of plastic materials.
- Q.23 Write down factors affecting the test result of tensile strength.
- Q.24 Write short note on six sigma.
- Q.25 Write short note on stress relaxation.