

- Q.32 Explain short note on ESCR test.
- Q.33 How will you carry out the HDT test on plastic sample?
- Q.34 Explain oxygen index test in detail.
- Q.35 Explain various short term mechanical properties.

SECTION-D

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

- Q.36 Write short note on
- Cone & Plate rheometer
 - Cutting and milling
- Q.37 Define hardness test. Explain Rockwell hardness test and shore hardness test for plastic materials.
- Q.38 Discuss volume and surface resistivity test of plastics material.

No. of Printed Pages : 4

182244

Roll No.

4th Sem.
Branch : Plastic
Sub.: Plastic Testing–I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (10x1=10)

- Q.1 Unit of relative viscosity is
- m/s
 - Unit less
 - Both A & B
 - None
- Q.2 To check the grade of plastic material by
- MFI
 - DSC
 - HDT
 - None
- Q.3 Dart impact test is applicable for films
- True
 - False
 - Cannot say
 - None
- Q.4 Teflon is a ____ material
- Thermoset
 - Thermoplastic
 - Both A & B
 - None
- Q.5 Engineering plastic is an example
- HDPE
 - LDPE
 - PP
 - Nylon 66

- Q.6 Modulus of rupture or bending is known as
 a) Flexural strength
 b) Yield strength
 c) Compressive strength
 d) None
- Q.7 ASTM D-1238 is a standard of
 a) DSC b) MFI
 c) Tensile strength d) Arc resistance
- Q.8 The minimum thickness of plastic specimen for testing of tensile strength is
 a) 1mm b) 2mm
 c) 3mm d) 4mm
- Q.9 Positioning of specimen in Charpy test is
 a) Vertical b) Horizontal
 c) Parallel d) None
- Q.10 Rockwell test is used for
 a) Hardness b) Burst test
 c) Arc resistance d) None of these

SECTION-B

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

- Q.11 Write Example of specialty plastics.
- Q.12 Define drop test.

- Q.13 Define quality.
- Q.14 Expand TGA.
- Q.15 Define refractive index.
- Q.16 Name the solvent of polystyrene.
- Q.17 Expand ISI.
- Q.18 Expand DSC.
- Q.19 Define six sigma.
- Q.20 Define specific gravity.

SECTION-C

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

- Q.21 Write the test procedure for compressive strength test.
- Q.22 Write the test procedure to measure arc resistance test.
- Q.23 Write down difference between conductor and insulator.
- Q.24 Write short note on abrasion resistance test.
- Q.25 Define milling operation for test specimen.
- Q.26 Explain water absorption of plastics.
- Q.27 Explain different types of sampling plans.
- Q.28 Explain capillary rheometer.
- Q.29 What are the purposes of standardization?
- Q.30 Write short note on specific gravity test.
- Q.31 Explain the need of statistical quality control.