

- Q.27 Define refractive index. Explain its importance in plastic products.
- Q.28 Discuss flammability of cellular plastics.
- Q.29 Discuss any one test method and standard for bio-degradable plastics.
- Q.30 Name four test performed plastic foams. Explain anyone.
- Q.31 Explain ignition properties of plastics in brief.
- Q.32 Discuss impact drop test for plastic films.
- Q.33 How will you determine gloss in plastic samples?
- Q.34 Explain any two test performed on woven sacks.
- Q.35 Name three major accelerated weathering tests.

Section-D

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

- Q.36 Explain :
- Luminous transmittance
 - Immersion test and its importance
- Q.37 Explain test specimen preparation and procedure for volume and surface resistivity.
- Q.38 Write short note on :
- Di-electric strength of plastic
 - Arc resistance test for plastics.

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**5th Sem., Branch : Plastic
Subject : Plastic Testing - II**

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 ASTM D 1434 is the test standard used for
- Haze
 - Outdoor weathering test
 - Water absorption test
 - Gas permeability test
- Q.2 _____ is the deviation angle in haze from the incident light
- $>5^{\circ}$
 - <2.5
 - $>2.5^{\circ}$
 - Note of these
- Q.3 W.V.T. Stands for _____.
- Waste volatile treatment
 - Water Vapour transmission
 - Waste Vapour transmission
 - None of these
- Q.4 PMMA produces _____ odour, when burned.
- Pungent smell
 - Fruity smell
 - Waxy smell
 - Acetic acid smell

- Q.5 MFI value indicated in _____.
 a) g/1min b) g/100min
 c) g/10min d) None of these
- Q.6 Abbe refractometer is used in measurement of _____.
 a) Gloss b) Haze
 c) Refractive index d) All of these
- Q.7 _____ is the change in length per unit of the original length
 a) Stress b) Density
 c) Viscosity d) None of these
- Q.8 _____ is self extinguishing in nature.
 a) SAN b) PVC
 c) PP d) None of these
- Q.9 Which material shows wax like appearance?
 a) PE b) PP
 c) PTFE d) All of them
- Q.10 _____ is the refractive index value for glass
 a) 1.5 b) 1.55
 c) 1.60 d) 1.65

Section-B

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

- Q.11 ASTMD 638 is the test standard for _____.

- Q.12 BIS stands for _____.
 Q.13 Give ASTM number for Arc resistance test.
 Q.14 ASTM D523 is the standards test number for _____.
 Q.15 _____ is the temperature above which the polymers show sign of chemical degradation such discoloration smoking.
 Q.16 _____ is the ASTM code for visual colour evaluation.
 Q.17 Minimum amount of oxygen required to maintain the combustion of specimen is known as _____.
 Q.18 _____ is the ability of material to withstand bending forces applied perpendicular to its longitudinal axis.
 Q.19 HDT stands for _____.
 Q.20 Name two flammability test for plastics.

Section-C

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

- Q.21 Explain resistance of plastics for biological systems.
 Q.22 Discuss Smoke density test and its importance.
 Q.23 Explain test for colour measurement of plastics.
 Q.24 Write short note on ESCR.
 Q.25 Explain weathering properties of plastics.
 Q.26 Explain tests for checking electrical insulation resistance of plastics.