

- 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 sort 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 ASTM D 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.