

- Q.30 Name four test performed plastic foams. Explain any one.
- Q.31 Briefly, Explain ignition properties of plastics.
- Q.32 Discuss luminous transmittance test.
- Q.33 Discuss arc resistance test and its importance.
- Q.34 What is Dielectric constant ? Explain its measurement
- Q.35 Explain criteria used in evaluation of biodegradable plastics.

#### SECTION-D

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

- Q.36 Write short note on :
- Antistatic tests
  - Clarity and haze test.
- Q.37 Discuss various test performed on plastic pipes (PVC & HDPE).
- Q.38 Discuss :
- Resistance of plastics of biological systems
  - Oxygen index Test.

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**5th Sem. / Branch : Plastic Engineering**

**Subject:- Plastic Testing -II**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 ASTM D 256 is the test standard for \_\_\_\_\_.  
  - Tensile testing
  - Dielectric Strength Testing
  - Izod Testing
  - None of these
- Q.2 \_\_\_\_\_ is self extinguishing in nature.  
  - SAN
  - PVC
  - PP
  - None of these
- Q.3 Which material shows wax like appearance ?  
  - PE
  - PP
  - PTFE
  - All of them
- Q.4 \_\_\_\_\_ is a measure of the susceptibility of the material to surface contamination .  
  - Surface resistivity
  - Conductivity
  - Induction
  - Current
- Q.5 \_\_\_\_\_ is the refractive index value for glass  
  - 1.5
  - 1.55
  - 1.60
  - 1.65

- Q.6 If we drop a piece of sample in water and it simply floats than it may be \_\_\_\_\_  
 a) PE                                      b) UF  
 c) Nylon                                      d) MF
- Q.7 Instrument used for measuring the refractive index of plastics  
 a) Spectrophotometer    b) Multi-meter  
 c) Refractometer              d) Calorimeter
- Q.8 \_\_\_\_\_ is a measure of light reflected by the surface of a plastic film.  
 a) Birefringence              b) Gloss  
 c) Light transmittance    d) None of these
- Q.9 \_\_\_\_\_ viscometer is used to determine the viscosity and organosols.  
 a) Parallel plate viscometer  
 b) Brookfield viscometer  
 c) Torque viscometer  
 d) None of the above
- Q.10 Deformation that occurs due to stress over a period of time is known as \_\_\_\_\_  
 a) Wear resistance              b) Fatigue  
 c) Creep                                      d) None

#### SECTION-B

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

- Q.11 Polystyrene gives \_\_\_\_\_ sound when fall on ground.
- Q.12 Expand ASTM.

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- Q.13 PVC gives \_\_\_\_\_ odour, when burned.
- Q.14 Name any one biodegradable plastic.
- Q.15 \_\_\_\_\_ is the ASTM code for visual color evaluation.
- Q.16 \_\_\_\_\_ is the ASTM code for Arc resistance test
- Q.17 Name four optical tests for plastics
- Q.18 ASTM D 638 is the test standard for \_\_\_\_\_.
- Q.19 Name two flammability test for plastics.
- Q.20 MFi stands for \_\_\_\_\_.

#### SECTION-C

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

- Q.21 Explain volume and surface resistivity test for plastics.
- Q.22 Discuss Smoke density test and its importance.
- Q.23 Explain test for color measurement of plastics.
- Q.24 Write short note on ESCR.
- Q.25 How will you check weathering properties of plastics.
- Q.26 Explain tests for checking electrical insulation resistance of plastics.
- Q.27 What is refractive index ? Explain its importance in plastic products.
- Q.28 Explain flammability of cellular plastics.
- Q.29 Discuss any one test method and standard for bio degradable plastics.

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