

- 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 _____.
a) Tensile testing
b) Dielectric Strength Testing
c) Izod Testing
d) None of these

Q.2 _____ is self extinguishing in nature.
a) SAN b) PVC
c) PP d) None of these

Q.3 Which material shows wax like appearance ?
a) PE b) PP
c) PTFE d) All of them

Q.4 _____ is a measure of the susceptibility of the material to surface contamination .
a) Surface resistivity b) Conductivity
c) Induction d) Current

Q.5 _____ is the refractive index value for glass
a) 1.5 b) 1.55
c) 1.60 d) 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 ExpandASTM.

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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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