

- Q.28 Explain test procedure for oxygen index test
 Q.29 Discuss flammability test.
 Q.30 Explain anti static test.
 Q.31 Write short note on ESCR.
 Q.32 Explain gloss test for plastics.
 Q.33 Explain volume and surface resistivity test for plastics.
 Q.34 Discuss Smoke density test and its importance.
 Q.35 How will you test resistance of plastics against biological effect?

SECTION-D

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

- Q.36 Write short note on :
 a) Environmental factors effecting plastic
 b) Clarity and haze test
 Q.37 Discuss (in detail) various tests performed on plastic pipes.
 Q.38 Discuss :
 a) Luminous Transmittance
 b) Oxygen index test

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5th Sem / Branch : Plastic Sub.: Plastic Testing - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Sine of angle of incidence of a beam of light entering a sample to the sine of angle of refraction is known as
 a) Refractive index b) Haze
 c) Transmittance d) None of these
 Q.2 Which polymer material show high weathering resistance.
 a) PC b) PMMA
 c) PTFE d) All of these
 Q.3 ASTM D1435 is the test standard used for :
 a) Haze
 b) Outdoor weathering test
 c) Water absorption test
 d) Gas permeability test
 Q.4 Which material shows wax like appearance?
 a) PE b) PP
 c) PTFE d) All of them

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- Q.5 PVC turns _____ on overheating.
 a) Blue b) Yellow
 c) Red d) Grey
- Q.6 ASTM D1003 is the test standard used for :
 a) Haze
 b) Outdoor weathering test
 c) Water absorption test
 d) Gas permeability test
- Q.7 ASTM D1693 is the test standard used for:
 a) ESCR
 b) Outdoor weathering test
 c) Water absorption test
 d) Gas permeability test
- Q.8 _____ self extinguishing in nature .
 a) SAN b) PVC
 c) PP d) None of above
- Q.9 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.10 _____ gives fruity smell when Burn.
 a) PE b) PMMA
 c) PP d) PET

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 When polyethylene burnt it will give _____ appearance of flame.

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- Q.12 (ASTM D 570) is the test standard for which test procedure?
- Q.13 Give ASTM number for Arc resistance test.
- Q.14 What will be the standard conditioning temperature for conditioning procedure in a lab?
- Q.15 _____ is the ASTM code for visual color evaluation.
- Q.16 Name four tests performed on plastic pipes.
- Q.17 Expand ASTM.
- Q.18 PVC gives _____ odour, when burned.
- Q.19 Name any one biodegradable plastic.
- Q.20 Name two tests required for testing of electrical cables.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain criteria used for evaluation of Bio-Degradability of plastics.
- Q.22 Explain test for colour measurement of plastics.
- Q.23 Name three major accelerated weathering tests.
- Q.24 How will you check water absorption properties of plastic?
- Q.25 How will you determine the di-electric strength of plastics?
- Q.26 Discuss refractive index testing of plastics.
- Q.27 Explain immersion test for plastics.

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