

- 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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Roll No.

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

- 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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