

- Q.25 What are the test methods and standard of biodegradable plastics?
- Q.26 Explain oxygen index test.
- Q.27 Write test of flammability of cellulose plastics.
- Q.28 How to determine smoke density test.
- Q.29 What factors which affects the ESCR test.
- Q.30 Explain volume resistivity.
- Q.31 Explain the test of surface resistivity.
- Q.32 Explain antistatic test of plastic material.
- Q.33 Why need of plastic testing for industrial purpose.
- Q.34 Explain the test of color measurement and gloss.
- Q.35 Explain the test of refractive index of plastic material.

SECTION-D

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

- Q.36 Write short note on
- Quick burst strength test
 - Long term burst strength test
- Q.37 Explain criteria used evaluation of biodegradable plastics.
- Q.38 Explain environmental factors affecting plastics.

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5th Sem / Plastic Subject:- Plastic Testing - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Plastics are insulators
- True
 - False
 - Can not say
 - None of these
- Q.2 Unit of dielectric strength
- V/mL
 - mL/V
 - ohm/m
 - None of these
- Q.3 Which affects the test result of dielectric strength
- Temperature
 - Electrode
 - Time
 - All of these
- Q.4 ASTM-D of dielectric constant is
- ASTM-D150
 - ASTM-D250
 - ASTM - D618
 - None of these

- Q.5 The ratio of its reactance to its parallel resistance
 a) Dissipation factor b) Dielectric constant
 c) Volume resistivity d) None of these
- Q.6 ASTM-D 495 is a standard of
 a) Dielectric strength b) Arc resistance
 c) Dissipation factor d) None of these
- Q.7 Degradation of plastics means
 a) Breakage of polymer chain
 b) Discoloration
 c) Embrittlement
 d) None of these
- Q.8 All amorphous plastics are
 a) Transparent b) Opaque
 c) Translucent d) None of these
- Q.9 Primary optical properties are
 a) Refractive index
 b) Light transmittance & haze
 c) Gloss
 d) All of these
- Q.10 To test burst strength of
 a) Plastics Pipes b) Plastic Valves
 c) Tanks d) All of these

SECTION-B

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

- Q.11 Define arc resistance.
- Q.12 Write example of biodegradable plastics.
- Q.13 Define clarity.
- Q.14 Define haze.
- Q.15 Define standard.
- Q.16 Expand ASTM.
- Q.17 Expand ESCR.
- Q.18 Define testing of plastics.
- Q.19 Nylon burns as hair burning smell. (True/False)
- Q.20 Define strain resistance.

SECTION-C

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

- Q.21 Explain test of dielectric strength of plastic materials.
- Q.22 What are the factors which affect the dielectric strength?
- Q.23 Explain test procedure for ESCR.
- Q.24 How to conduct burst test of plastic pipes?