

- 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

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- 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?