

- Q.28 Explain flammability test for plastics
 - Q.29 Explain end group analysis for plastics.
 - Q.30 Discuss concept of statistical quality control
 - Q.31 Write procedure for thermal expansion test for plastics
 - Q.32 Discuss creep and stress relaxation phenomenon in plastics.
 - Q.33 Explain Rockwell hardness test.
 - Q.34 Discuss tear test for plastic films.
 - Q.35 Explain different types of sampling method.

SECTION-D

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

- Q.36 Write burning test for identification of:

 - a) PVC
 - b) ABS
 - c) Nylon
 - d) Urea formaldehyde

Q.37 Write equipment and standard procedure of testing for:

 - a) Falling weight impact test
 - b) Shear strength of plastics

Q.38 Explain

 - a) Various test performed on Universal testing machine
 - b) Group detection test

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4th Sem / Plastic
Subject:- Plastic Testing - I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In a Charpy test, high hammer velocity ensures _____.

 - a) High strain rate
 - b) Local stresses
 - c) Ductility in fracture
 - d) Low stress concentration

Q.2 Which of the following is optical property?

 - a) Haze
 - b) Gloss
 - c) Refractive index
 - d) All of them

Q.3 ASTM D2240 is the standard for _____ test.

 - a) Tensile test
 - b) Rockwell hardness test
 - c) Durometer hardness test
 - d) Brinell hardness test

Q.4 What is the full form of UTM?

 - a) Universal test method

- b) Urea test method
 - c) Universal testing machine
 - d) Unlimited test method
- Q.5 ASTM D1238 is the standard for _____ test.
- a) Tensile test
 - b) Flexural test
 - c) flame test
 - d) MFI
- Q.6 Which plastic material softened on heating but does not drip.
- a) HIPS
 - b) PVA
 - c) ABS
 - d) All of these
- Q.7 ASTM D790 is the standard for _____ test.
- a) Tensile test
 - b) Flexural test
 - c) flame test
 - d) MFI
- Q.8 WVT stands for _____
- a) Waste vapour test
 - b) Water vapour Transmission
 - c) Water value test
 - d) None of these
- Q.9 MFI value indicated in _____
- a) g/1min
 - b) g/100min
 - c) g/10min
 - d) None of these
- Q.10 Creep is a _____ dependent phenomenon.
- a) Temperature
 - b) Time
 - c) Load
 - d) Stress cycle

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Give ASTM standard for thermal conductivity test _____.
- Q.12 Expand DIN.
- Q.13 Poly olefins generally have _____ feel when touched.
- Q.14 PE burns with _____ flame.
- Q.15 Name two optical properties of polymer.
- Q.16 PVC is self-extinguishing in nature. (True or False)
- Q.17 PS gives _____ smell.
- Q.18 Expand VSP.
- Q.19 SQC stands for _____.
- Q.20 Define Histogram.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 How will you measure moisture contents in Plastics?
- Q.22 Explain HDT test for plastics
- Q.23 Explain VSP test and its importance.
- Q.24 How testing helps in improving the quality of product.
- Q.25 Discuss templates and punching.
- Q.26 How will you measure melt flow index of plastics?
- Q.27 Explain any one pendulum impact testing method.