

- Q25 Discuss :
- a) Water absorption Test
 - b) Statistical process control

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4th Sem. / Plastic Technology
Subject : Plastic Testing & Quality Control

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 ASTM D790 is the standard for _____ test.
- a) Tensile test b) Flexural test
 - c) Flame test d) MFI
- Q.2 The ability of materials to develop a characteristic behaviour under repeated loading known as _____.
- a) Toughness b) Resilience
 - c) Hardness d) Fatigue
- Q.3 Deformation that occurs due to stress over a period of time is known as _____.
- a) Wear resistance b) Fatigue
 - c) Creep d) Fracture
- Q.4 Instrument used for measuring the refractive index of plastics
- a) Spectrophotometer b) Multi-Meter
 - c) Refractometer d) Calorimeter

- Q.5 MFI value indicated in _____.
a) g/1min b) g/100min
c) g/10min d) None of these

- Q.6 BIS Stands for _____.
a) Bureau of Indian Standards
b) Basic of Indian Standards
c) British International Standards
d) None of these

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Expand DIN.
Q.8 Expand ESCR.
Q.9 Polyethylene gives _____ flame when burned.
Q.10 Name two short term mechanical properties.
Q.11 ASTM D149 is the standard test number for _____ test.
Q.12 Name the test used for checking the impact strength of Plastic films.

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 How will you measure insulation resistance of plastics?
Q.14 Discuss Melt flow Index test.
Q.15 Discuss outdoor weathering of plastic.
Q.16 Name three major accelerated weathering tests.
Q.17 Explain test procedure for oxygen index test.
Q.18 Discuss test procedure for Arc resistance test.
Q.19 Describe tests for plastic films and explain any one of them.
Q.20 Explain the criteria used for evaluation of bio degradable plastics.
Q.21 Discuss gloss test for plastics.
Q.22 Suggest test methods for determining color measurements.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain :
a) Rockwell-Hardness test
b) Dielectric Constant
Q.24 Explain with neat sketch, various types of pendulum impact test with standard and specifications.