

Register No.:

275

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. What are the methods of preparing test specimens?
2. What is five fingers scratch test?
3. Give the factors affecting impact strength.
4. What is strain? Give its unit.
5. Give the significance of TGA.
6. Define melt flow index.
7. How do you measure arc resistance?
8. What is tracking index?
9. What is accelerated weathering test?
10. Name the various tests performed to access the quality of film.

[Turn over.....

PART – B

11. (a) Discuss the determination of Rockwell hardness.
(Or)
(b) Discuss the determination of samples by compression moulding process.
12. (a) Explain the determination of tensile strength for thermoset plastics.
(Or)
(b) Discuss the determination of compressive strength for polymers.
13. (a) Explain the determination of Tg using DMA.
(Or)
(b) Discuss the difference between DSC and DME.
14. (a) Explain the determination of breakdown voltage.
(Or)
(b) Explain a method to determine the transparency of plastics.
15. (a) Discuss the various tests performed to access the quality of PVC pipes.
(Or)
(b) Discuss the various destructive and non-destructive tests for Hose.
