

Register No.:

937

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. Write the applications of radial tyre.
2. Draw flow diagram of the manufacture of automotive tube.
3. Write typical formulation for coated fabrics.
4. Draw cut sectional sketch of a V-belt.
5. Give an account on safety foot wear.
6. List the properties of radiator hose.
7. Mention any three applications of rubber rolls.
8. Give one characteristic property required for diaphragms.
9. List out the fillers used in latex glove manufacture.
10. Write the formulation for preparation of latex threads.

[Turn over.....

PART - B

11. (a) Discuss the formulation, manufacture and applications of solid tyres.

(Or)

- (b) Give formulation for automotive tube. Explain the functions of each ingredient.

12. (a) Discuss the formulation and manufacture of cables.

(Or)

- (b) Discuss the manufacture of conveyor belt with flow diagram.

13. (a) Explain the production of cellular rubber soled footwear.

(Or)

- (b) What are the components of footwear? How injection moulded soles are made?

14. (a) Explain metal surface preparation in rubber to metal bonded components.

(Or)

- (b) Discuss the properties and uses of hard rubber.

15. (a) Explain the manufacture of latex mattresses by Dunlop process.

(Or)

- (b) Write formulation of NR adhesives. Explain the function of each ingredient.
