

Total No. of Pages : 2

B.Tech. (CE) (Sem.-6th)

Subject Code : CE-302

Max. Marks : 60

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

- Name the normal gauges adopted in Indian railways and write down their sizes.
- Distinguish between dog spike and screw spike.
- Differentiate between station and yard.
- What is ruling gradient?
- What is negative superelevation?
- What are starter signals?
- What is the significance of wind rose diagram?
- What is wave theory causing creep?
- Calculate the radius of the circular curve of 1 degree curvature.
- What function is performed by taxiway?

- i) Functions
- ii) Requirement of an ideal material
- iii) Different materials used and their relative merits

- iii) Write short notes on Beacon light a