

Total number of printed pages-2

53 (CE 502) TREN

2021

TRANSPORTATION ENGINEERING-I

Paper : CE 502

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer all questions.

1. (a) Explain the importance of roads in the development of any nation. 10
- (b) Explain the history of road development in India. 10
2. (a) Explain different methods to conduct origin and destination studies. 10
- (b) Explain different methods to conduct speed and delay studies. 10

Contd.

3. (a) What are the desirable properties of road aggregates? 10
- (b) Derive the expression of setback distance for two-lane road for length of curve greater than sight distance condition. 10
4. (a) Derive the expression for OSD. 10
- (b) Explain IRC methods of flexible pavement design. 10
5. (a) What are the differences between rigid and flexible pavements? 10
- (b) Design all the geometric elements for NH passing on plain terrain. 10

