

Total number of printed pages-3

53 (CE 603) TREN-II

2018

TRANSPORTATION ENGINEERING-II

Paper : CE 603

Full Marks : 100

Time : Three hours

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

Answer all questions.

1. (a) Explain the role of Indian Railways on social, economic and cultural development of Indian subcontinent. 10
(b) Explain the problems caused by the change of Gauge. What are the benefits of having uniform gauge throughout the country? 10
2. (a) What are the factors controlling layout of a good railway alignment? 10

Contd.

(b) Explain the surveys conducted before laying a new railway line.

10

3. (a) What are the requirements of a good railway track? 5

(b) Give the classification of sleepers based on materials used for their production. Give the merits and demerits of each type of sleeper. 10

(c) What are the functions of railway ballast? 5

4. (a) What are the surveys conducted before finalising suitable site for an airport? 5

(b) Explain the factors controlling layout of taxiway. 5

(c) Explain basic parking configurations of aircrafts. 5

(d) Explain Satellite system of parking aircrafts. 5

5. (a) Explain the theories related to creep of rails. 5

(b) Explain the methods to reduce wear of rails. 5

(c) Explain the different components of airport. 5

(d) Explain the requirements of good site for Hanger construction. 5