

Total number of printed pages-3

53 (CE 603) TREN-II

2017

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) What are the advantages of rail transport over other modes of transportation? 5
- (b) What are the advantages of uniformity of gauges throughout the country? 10
- (c) Explain rail failures. 5
2. (a) Explain in detail various types of engineering surveys conducted before railway alignment. 10

Contd.

- (b) Describe *any five* types of railway ballast. 10
3. (a) Explain various cases used to calculate basic runway length. 10
- (b) Explain various data collected before finalising the suitable location for an airport. 10
4. (a) What are the advantages of wooden railway sleepers? 5
- (b) What are the causes of wear of rails? 5
- (c) What are the different types of rail sections? 5
- (d) What are the different methods of welding of rails? 5
5. (a) What are the factors to be considered before finalising the layout of a taxiway? 5
- (b) What are the facilities to be available at the terminal building of an airport? 5

(c) Draw the typical layout of an airport.

5

(d) What are the causes of creep of rails?

5

