Total number of printed pages-2

53 (CE 603) TREN-II

2019 causes and remedial

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 requirements of ideal permanent way?
 - (b) Draw the neat sketch of cross-section of a railway track and explain the roles of its various components.

(b) Draw the nest sketch of typical

- 2. (a) Explain the problems caused by Non-uniformity of gauges across the country.
 - (b) Explain various causes that results in horizontal movement of rails with respect to sleepers.

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- 3. (a) What are the requirements of ideal rail section? Explain various types of rail sections.
 - (b) Explain various causes and remedial measures for wear of rails. 10
- (a) What are the advantages of welding of rails? Explain different methods of welding of rails.
 - (b) What are the functions of railway ballast? Explain the requirements of ideal ballast material.
- 5. (a) The length of runway under standard conditions is 2000m. The airport site has an elevation of 320m. Its reference temperature is 34°C. If the runway is to be constructed with an effective gradient of 0.2%, determine the corrected runway length.
 - (b) Draw the neat sketch of typical layout of airport. Explain its various components.

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