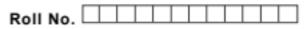


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Total No. of Pages : 02

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B.Tech. (CE) (2012 to 2017) (Sem.-7) TRANSPORTATION ENGINEERING - II Subject Code : BTCE-804 M.Code : 71862

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

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Answer briefly :

- 1. List various gauges prevailing in India with their gauge widths.
- What are the functions of rails?
- Define equilibrium speed.
- 4. What are the objects of signaling?
- 5. How are railway stations classified?
- 6. What do you mean by Tongue rail?
- 7. What does ICAO and IAAI stand for?
- 8. What is separation clearance?
- 9. What are the various groups into which airport markings are divided?
- 10. Draw sketch of typical lightning of wind direction indicator.



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SECTION-B

- 11. Why is it desirable to have, as far as possible, a uniform gauge for the railway network of a country?
- What is meant by wear of rails? Categorize the types of rail wear and enumerate the methods by which wear in rails can be measured.
- 13. Discuss the structure of ICAO.
- What is a wind rose diagram? What is its utility? What are its types? Explain each type briefly.
- 15. What do you understand by optimum location of exit taxiway?

SECTION-C

- 16. Write a detailed note on important statistics of Indian Railways.
- Calculate the superelevation, maximum permissible speed, and transition length for a 3° curve on a high speed BG section with a maximum sanctioned speed of 110 kmph. Assume the equilibrium speed to be 80 kmph and the booked speed of the goods train to be 50 kmph.
- 18. Explain the various surveys to be conducted and the data to be collected for airport site selection.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.



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