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Total No. of Pages : 02

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B.Tech.(CE) (2011 Onwards) (Sem.-7,8) TRANSPORTATION ENGINEERING - II Subject Code : BTCE-804 M.Code : 71862

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
- 4. Assume any data suitably.

SECTION-A

- 1. Answer briefly :
 - a) First railway line in India was opened between which stations?
 - b) What do you mean by tilting of rails?
 - c) What is the need of proper geometric design of a track?
 - d) What is a turnout?
 - e) Give advantages of Maglev train.
 - f) Give advantages of A class stations.
 - g) What is a wind rose diagram?
 - h) What is a holding apron?
 - i) What are the various elements of airport lightning?
 - j) What are the various types of yards?

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SECTION-B

- 2. Give complete classification of railway line as adopted by Indian railways.
- 3. Draw neat sketch showing various components parts of a permanent way. Mention the requirements of an ideal permanent way.
- 4. Discuss the role of International Airport Authority of India for functioning of airports in India?
- 5. Explain the procedure of orienting the runway.
- 6. Explain various factors which affect the locations of exit taxiway.

SECTION-C

- 7. Give classification of signals according to their locations in station yards alongwith suitable sketches.
- 8. Calculate the maximum permissible speed on a curve of a high speed BG group A route having the following particulars :

degree of the curve = 10; superelevation 80mm, length of transition curve = 120m, maximum speed likely to be sanctioned for the section = 160kmph.

9. Enumerate various factors which you would keep in view while selecting a suitable site for an airport.

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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