SP - 202

Total No. of Pages : 2

Seat No.	

Final Year B.Tech. (Civil Engineering) (Semester - VIII) (CBCS) Examination, November - 2023

TRANSPORTATION ENGINEERING - II

Sub. Code : 84747

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Day and Date : Wednesday, 22 - 11 - 2023 **Total Marks : 70**

Time : 10.30 a.m. to 1.00 p.m.

Instructions :

1) **Q. No. 4 and Q.No. 8 are compulsory and attempt any two questions from Q.No. 1,2,3 and any two questions from Q. No. 5, 6, 7.**
2) **Figures to the right indicate full marks.**
3) **Assume suitable data if necessary and state them clearly.**
4) **Answer shall be supported by adequate sketches.**

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SECTION - I

Q1) Attempt all questions. **[10]**

a) Write a detailed note on various Airport Surveys.

b) Explain with a neat sketch Minimum Turning Radius and Minimum Circling Radius of an aircraft.

Q2) Attempt all questions. **[10]**

a) Explain Wind Rose Diagram with a neat sketch.

b) Explain in brief about different runway patterns with neat sketch.

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Q3) Attempt all questions. **[10]**

a) Explain the concept of 'Littoral Drift'

b) Explain in detail Natural phenomena of Tides and Waves

P.T.O.

Q4) Write a short note on the following. **[15]**

a) Runway Lighting

b) Traffic Forecasting

c) Site selection of harbor

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SECTION - II

Q5) Attempt all questions. **[10]**

a) Explain points and crossings. Sketch and explain acute angle crossing.

b) Define and enlist different types of station yards.

Q6) Attempt all questions. **[10]**

a) Describe the daily and periodic maintenance of railway track.

b) State objects of signaling and enlist advantages of automatic signaling.

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Q7) Attempt all questions. **[10]**

a) Define and enlist the purpose of bridge bearing.

b) What are the essential requirements of a good foundation of a bridge? Explain the types of bridge foundation in brief.

Q8) Write a short note on the following. **[15]**

a) Permanent way and its component parts.

b) Classification of Railway signals.

c) Loads acting on a bridge.

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