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Roll No

CE - 501**B.E. V Semester**

Examination, December 2013

Transportation Engineering - II**Time : Three Hours****Maximum Marks : 70**

- Note:** i) All questions carry equal marks.
 ii) Attempt any five questions selecting one from each unit.
 iii) Assume suitable data if found missing.

Unit - I

1. (a) Discuss important features of Second Twenty Year Road Plan.
 (b) How will you select a proper Road Alignment?

OR

2. The difference in speeds of overtaking and overtaken vehicles is 30KmPH. The speed of overtaking vehicle is 75KmPH. Acceleration of overtaking vehicle is 4KmPH per sec. Calculate the overtaking right distance for
 (a) Two way traffic
 (b) One way traffic.

Unit - II

3. How bituminous mix design is done by Marshal method? Discuss the various criterion and test procedure in detail giving various graph.

OR

4. (a) Draw S-N curve used for Fatigue Analysis. Explain meaning of different terms and significance of the curve.
 (b) Explain the principles of design of Rigid pavement.

Unit - III

5. (a) Discuss the various methods of Stabilization of sub grade.
 (b) How Water Bound Macadam Road is constructed? Explain step by step.

OR

6. (a) Explain the procedure and significance of
 i) Impact test ii) Abrasion Test.
 (b) Draw a neat sketch of Traffic Rotary and explain the advantages.

Unit - IV

7. (a) How will you select a suitable site for AIRPORT?
 (b) Explain the Orientation of Runway using Wind Rose diagram.

OR

8. (a) Explain the various criterion of Basic Runway length giving neat figures.
 (b) Draw a neat sketch of Runway. Explain the function of different parts.

Unit - V

9. (a) Explain the various IMAGINARY SURFACE through neat sketches.
 (b) Draw a neat sketch of Runway Lighting. Explain the different parts.

OR

10. Write a note on :
 (a) Rotating Beacon
 (b) Boundary Lights
 (c) Instrument Landing system
 (d) Precision approach radar.

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