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5574

Register Number:

Name of the Candidate:

B.Sc. DEGREE EXAMINATION, May 2015

(CONSTRUCTION MANAGEMENT)

(FOURTH SEMESTER)

430: TRANSPORTATION AND TRAFFIC MANAGEMENT

Time: Three hours

Maximum: 75 marks

Answer ALL questions

(5 × 15 = 75)

UNIT - I

1. a) What are the various methods of classifying roads (5)
b) Briefly outline highway development in India (10)
(OR)
2. a) Briefly outline the main features of various road patterns commonly in use. Explain with sketches the star and Grid pattern (10)
b) What is the extra widening of pavements and analyse it (5)

UNIT - II

3. a) What are the objects and scope of traffic engineering (7)
b) Explain the term traffic volume. What are the objects of carrying out traffic volume studies. (8)
(OR)
4. a) Explain briefly the various aspects investigated during parking studies (7)
b) With neat sketches show various types of traffic signs. Classifying them in proper groups (8)

UNIT - III

5. a) What are all the types of intersections? And explain its uses (8)
b) Explain the advantages and disadvantages of Rotary inter sections (7)
(OR)
6. What are the various types of traffic islands? Explain the design criteria (15)

UNIT - IV

7. a) Explain the components of permanent way and draw a cross section of a permanent way (8)
- b) Write the components of
- i) Rails (3)
 - ii) Sleepers (2)
 - iii) Ballast (2)
- (OR)
8. a) What are the Gradients in Railway track Explain it briefly (8)
- b) Explain crossings and Turn outs with suitable diagram (7)

UNIT - V

9. a) Calculate the actual length of runway for the following site conditions
- Elevation = +1750m
 - Reference Temperature = 29°C
 - Effective gradient = 0.25%
 - Basic Runway length = 1800m (10)
- b) Draw the wind rose diagram (5)
- (OR)
10. What are all the factors affecting selection of site for airport (15)

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