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Question Paper Code : 40733

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Seventh Semester
Civil Engineering
CE 6006 – TRAFFIC ENGINEERING AND MANAGEMENT
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What is meant by PCU ? How its values are fixed ?
2. What do you mean by modal integration ?
3. What do you mean by desire line chart ?
4. Define parking index.
5. What is VMS and what are the uses of it ?
6. What are the types of traffic signs ?
7. What are the need for street lighting ?
8. What are the advantages of promoting non-motorized transport ?
9. Define traffic segregation and what for it is done.
10. What are the advantages of exclusive bus lane ?



PART – B

(5×16=80 Marks)

11. a) Describe the characteristics of vehicle and the power performance of vehicles. (16)
(OR)
- b) i) Discuss about the various urban transport problems in India. (8)
ii) Explain the fundamentals of traffic flow. (8)
12. a) i) Mention the methods available for OD survey. Explain in detail about home questionnaire survey. (10)
ii) List out the various uses of volume count survey data. (8)
(OR)
- b) i) Explain the various types of off-street parking facilities. (8)
ii) Elaborate on Traffic forecasting. (8)
13. a) i) Discuss the advantages and disadvantages of different types of traffic signals. (8)
ii) Explain the diamond interchange with neat sketch. (8)
(OR)
- b) What are the functions and principles of road markings ? Draw and explain the road markings at a four armed intersection with median. (16)
14. a) i) Explain briefly the different driver factors that cause accidents and mention the concerned preventive measures. (8)
ii) Explain how the promotion and integration of public transport can be done. (8)
(OR)
- b) i) Brief the measures to reduce the vehicular air pollution (6)
ii) Explain skidding along with the factors determining skid resistance and road construction practices for obtaining skid resistant surfaces. (10)
15. a) What are the TSM measures that can be adopted ? Explain any six of them. (16)
(OR)
- b) i) Explain any four TDM techniques that are commonly adopted. (10)
ii) Explain the (Intelligent Transport System) ITS for traffic management, enforcement. (6)