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Question Paper Code : 41016

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Sixth Semester

Civil Engineering

080100046 — TRAFFIC ENGINEERING AND MANAGEMENT

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name any four psychological characteristics of road user.
2. What are the functions of a traffic engineer?
3. What is meant by space mean speed?
4. What are uses of traffic volume survey?
5. Give examples of mandatory signs.
6. What are the advantages of fixed time signals?
7. What is a condition diagram?
8. What is meant by tidal flow?
9. State any four detrimental effects of traffic noise.
10. What are the common methods of on street marking?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss briefly the various factors that affect the road user characteristics and their effect on traffic performance.

Or

- (b) What are the different vehicular characteristics that affect the road design? Explain briefly.

12. (a) What are the various objectives of spot speed study? Discuss any two methods of spot speed data collection.

Or

- (b) Explain the concept of Level of Service. Briefly explain the operating conditions for the six levels of service.

13. (a) Discuss the functions, general principles and types of traffic signs.

Or

- (b) Compare the merits and demerits of fixed time, vehicle actuated and semi vehicle actuated signals.

14. (a) What are the various causative factors for road accidents? Explain a few remedial measures pertaining to enforcement.

Or

- (b) Explain the three methods of prohibiting right turning movements and the scope of prohibited left turning movements.

15. (a) What is the effect of traffic on environment? Explain the various measures to be taken to reduce air and noise pollution due to traffic.

Or

- (b) Explain the various considerations in locating off street parking facilities.
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