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Question Paper Code: 59105

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Civil Engineering

15UCE905 - Traffic Engineering and Management

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The instantaneous speed of a vehicle at a specified location is called as CO1- R
(a) Spot speed (b) Journey speed
(c) Running speed (d) Mean speed
2. The distance between two consecutive vehicles is called CO1- U
(a) Space Headway (b) Time Headway (c) Jam Density (d) Traffic flow
3. The type of signal where green period varies and are related to actual demand CO2- R
made by traffic are known as --- signal
(a) Fixed (b) Vehicle actuated
(c) Optimum (d) Semi vehicle actuated
4. The study of traffic engineering is divided into how many major categories CO2- U
(a) Five (b) Six (c) Seven (d) Eight
5. Weaving traffic is a CO3- R
(a) combination of merging & diverging traffic (b) straight traffic
(c) merging traffic (d) None of the above
6. In traffic engineering the elements are classified into how many categories CO3- R
(a) One (b) Two (c) Three (d) Four

7. Schematic representation of all the accidents occurring at a particular location is known as CO4- U
- (a) Collision diagram (b) Phase diagram
(c) Regression diagram (d) None of these
8. Three Es of road safety program are CO4- R
- (a) Evaluation, Engineering, Enforcement (b) Evaluation, Engineering, Education
(c) Education, Engineering, Enforcement (d) None of the above
9. Traffic System Management is CO5- U
- (a) Short term measures to use transport facilities (b) Long term demand
(c) Trip assignment method (d) None of these
10. Highway capacity of a traffic lane is the ability of the road way to allow ----- traffic flow CO5- R
- (a) Maximum (b) Minimum
(c) Moderate (d) Average

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain different methods of spot speed measurement CO1-U (8)
12. Compare the various types of coordinated signal clearly indicating advantages and disadvantages of each system CO2 -U (8)
13. State the need for sampling and list the various types of sample. CO3- App (8)
14. List the various causes of accidents and explain the various measures that can be taken to reduce accidents. CO4-U (8)
15. Explain the various traffic management systems. CO5- U (8)