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Question Paper Code: 49012

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Elective

Civil Engineering

14UCE911 - TRAFFIC ENGINEERING AND MANAGEMENT

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The torque developed at the fly wheel is converted to a torque at the
(a) Rear axle (b) Front axle (c) Engine (d) Wheel
2. The mean speed of slow moving vehicle like cycle is
(a) 15.63 K.M.P.H (b) 3.78 K.M.P.H
(c) 12.24 K.M.P.H (d) 4.89 K.M.P.H
3. The area under the parking accumulation curve during a specified period is called
(a) Parking volume (b) Parking load
(c) Parking index (d) Parking turnover
4. AADT is expanded as
(a) Average Annual Daily Traffic (b) Annual Average Daily Traffic
(c) Annual Accumulated Daily Traffic (d) Accumulated Annual Daily Traffic
5. Danger signs are also known as
(a) Prohibitory signs (b) Indication signs
(c) Mandatory signs (d) Cautionary signs

6. Traffic delays can be substantially reduced upto 12% when compared to fixed time plans in _____ systems.
- (a) EQUISAT (b) PLIDENT (c) SCOOT (d) SPG
7. Which one of the following is not the major component of exhaust gas?
- (a) Carbon dioxide (b) Unburnt petrol
(c) Oxides of nitrogen (d) Oxygen
8. An arrangement in which lanterns are placed alternatively on either side of carriage way
- (a) Staggered (b) Central (c) Opposite (d) Single-sided
9. TSM stands for
- (a) Transportation system management (b) Traffic survey management
(c) Travel speed management (d) Traffic signal management
10. For a one 2 way street and one 1 way street the point of conflict of a vehicles at a junction is
- (a) 16 points (b) 7 points (c) 4 points (d) 2 points

PART - B (5 x 2 = 10 Marks)

11. Define PIEV theory.
12. Differentiate aggregate and disaggregate model.
13. List out the traffic warrants.
14. Enlist the factors which determines skid resistance.
15. Write any four disadvantages of one way street system.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain about the urban traffic problems in India. (16)
- Or
- (b) Explain the factors affecting road user characteristics. (16)

17. (a) Enumerate the different methods of carrying out traffic volume studies. (16)

Or

(b) Write a brief note on Parking surveys. (16)

18. (a) Classify the types of traffic signals and explain about it. (16)

Or

(b) Explain in detail, the various types of road markings commonly used with neat sketches. (16)

19. (a) (i) Describe about the various types of pollutants that are contributed by traffic to air Pollution. (8)

(ii) Explain the different measures to reduce air pollution due to traffic. (8)

Or

(b) Write briefly the different factors causing accidents. (16)

20. (a) Explain in detail about some of the well-known traffic management measures. (16)

Or

(b) What is the significance of traffic management? Write the various travel demand management techniques commonly used in managing traffic on roads. (16)
