Reg. No. :

Question Paper Code: 31182

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

Elective

Civil Engineering

01UCE911 – TRAFFIC ENGINEERING AND MANAGEMENT

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define PIEV theory.

2. What is minimum turning radius?

3. Define PCU.

4. Define traffic volume.

5. What are the uses of traffic signals?

6. Draw a typical Rotary intersection and mark its salient features.

7. State the phenomenon of skidding.

8. What are the health effects caused by noise pollution?

9. List the disadvantages of one way street system.

10. What is meant by transport demand management?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about the power performance of vehicles relating resistance to motion along with its equations?   (16)

Or

(b) Explain the theory of traffic flow. (16)

12. (a) Discuss origin and destination survey. (16)

Or

(b) Define "level of services" and explain in brief various "level of services" as per Indian road congress (IRC). (16)

13. (a) Explain the various types of road markings commonly used with neat sketches? (16)

Or

(b) Discuss rotary intersection. (16)

14. (a) Explain the causes and effects of road accidents. (16)

Or

(b) Write in detail about the causes of air and noise pollution due to vehicles on road and the methods to reduce it. (16)

15. (a) Give an account of road pricing system. (16)

Or

(b) Explain in detail the various transport demand management techniques? (16)

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