

7E7066

Roll No. _____

Total No. of Pages : 2

7E7066

B.Tech. VII- Semester (Main&Back) Examination, Nov. - 2019
Civil Engineering
7CE6.1A Advance Transportation Engineering

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

Instructions to Candidates:

Attempt any Five questions, selecting one question from each unit. All Questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly). Units of quantities used/calculated must be stated clearly.

ersahilkagyan.com

UNIT - I

1. a) Discuss origin Destination studies. (8)
b) Describe the characteristics of parking. (8)

(OR)

1. a) Describe various highway inventories will you collect while doing road survey work. (8)
b) What is speed study? Describe any four methods for conducting speed studies. (8)

UNIT - II

2. Explain
i) Linear Regression
ii) Correlation (16)

(OR)

2. a) Explain the objective of sampling theory in traffic engineering. (8)
b) Explain mean, standard deviation and variance in traffic study. (8)

UNIT - III

3. a) Explain speed and density relationship with neat sketch. (8)
b) Describe various vehicular characteristics. (8)

(OR)

3. a) Explain any one method of design of signals. (8)
b) Explain with neat sketch design of roundabouts. (8)

UNIT - IV

4. a) What are the various regulations for drivers during driving. (8)
b) Explain pedestrian and mixed traffic. (8)

(OR)

4. a) Explain various traffic markings with neat sketch. (8)
b) Describe various traffic islands with neat sketch. (8)

UNIT - V

5. a) Explain various road safety equipments. (8)
b) Write short note on road safety. (8)

(OR)

5. a) Discuss the effects of traffic on air pollution. (8)
b) Explain noise pollution and visual intrusion which is caused due to traffic. (8)
-