

Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

CE-7102 (GS)**B.E. VII Semester**

Examination, December 2017

Grading System (GS)**Traffic Engineering****(Elective-I)****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any Five questions.
ii) All questions carry equal marks.

1. a) List and discuss the vehicle characteristics that are of concern to the traffic engineer. 7
b) Name the theory which explains reaction time describe PIEV theory. 5
c) Height of vehicle effect the road design describe in brief. 2
2. a) Describe about the physical, mental and emotional factors of road user. 7
b) What is braking capacity of vehicle? 3
c) Explain the term park, walk park and ride. 4
3. a) List the importance of speed and delay Study. 7
b) Explain the term spot speed, running speed, space mean speed and average speed. How are spot speed study carried out? 7

CE-7102 (GS)

328

PTO

[2]

4. a) Explain and write the uses of Origin and Destination (O and D) study. 7
b) Discuss the different methods of parking study. 7
5. a) Discuss the advantages and disadvantages of one way street. 5
b) Discuss in brief about the flexible and progressive signal system. 5
c) Explain the term. 4
i) Co-ordinated signals
ii) Isolated signals
6. a) Explain the various design factor in road lighting. 6
b) Explain the fundamental factors of night vision. 6
c) Define the term Luminance and Lumen. 2
7. a) Explain the different methods of accident studies. 7
b) What are the main causes of accidents? Mention few preventive measures. 7
- 8 Write short notes on (any four): 14
a) Traffic characteristics.
b) Traffic operations and control.
c) Speed and delay study.
d) Street markings.
e) Express ways and free ways.
f) Mass transportation.

***** 329

CE-7102 (GS)

HTTP://WWW.RGPVONLINE.COM