Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CE) (Sem.-5th)

TRANSPORTATION ENGG-I

Subject Code: CE-311

Paper ID : [A0617]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

I. Answer briefly:

- (a) Explain the different modes of transportation.
- (b) Write the difference between Bituminous and concrete roads.
- (c) Why extrawidening is provided on curves?
- (d) What are the requirements of a road alignment?
- (e) Why camber is provided on roads?
- (f) Why pavement evaluation is carried out?
- (g) Why Rotaries are provided on road intersections?
- (h) What are the surveys carried out in Road projects?
- (i) Why minimum gradient is required on roads?
- (j) What are the causes of road accidents?

SECTION

- 2. A falling gradient 1 in 80 meets a risi with a design speed of 80 kmph. Calc
- 3. Derive an expression for calculating st
- 4. Write short note on maintenance of hi
- 5. How the data of O-D study is analyse
- 6. Explain the different types of signs on

SECTION

- 7. Write the stepwise procedure for the o
- 8. Explain the various types of joints in
- 9. Write an explanatory note on the strer