

GANPAT UNIVERSITY
B.TECH- SEMESTER-VII CIVIL ENGINEERING
REGULAR EXAMINATION NOV/DEC- 2014
SUBJECT: 2CI: 711- TRANSPORTATION ENGINEERING –I

Time: 3 Hours

Max Marks: 70

Instructions: - (1) Answer to the two sections must be written in separate answer books.

(2) Figures to the right indicate full marks.

(3) Assume suitable data if required.

SECTION - I

- Que 1 **Answer the following Questions. (Any Three)**
- (A) Define transportation engineering and explain function of transportation engineering. (4)
- (B) Define the followings: (4)
- (a) Running speed
- (b) Space mean speed
- (c) Spot speed
- (d) Delay
- (C) Write short note on "Role of transportation in national development". (4)
- (D) Enlist the modes of transportation. What are the significance of modes of transportation? (4)

- Que 2 **Answer the following Questions.**
- (A) Explain how the traffic flow characteristics studies are useful. (5)
- (B) What are the benefits of road safety audit? (6)

OR

- Que 2 **Answer the following Questions**
- (A) Give the relation between speed, volume and density. (5)
- (B) Write short note on " Road safety audit" (6)

- Que 3 **Answer the following questions.**
- (A) Enlist the traffic survey and Describes of any one of them. (6)
- (B) Explain the collision and condition diagram with neat sketches. (6)

SECTION – II

- Que 4 **Answer the following Questions. (Any three)**
- (A) Define level of service and explain LOS C and LOS F. (4)
- (B) Enlist traffic management techniques and explain any one of them. (4)
- (C) Define the traffic signal and explain advantages of traffic signal. (4)

- (D) Describes the factor affecting highway capacity and level of service. (4)

Que 5 Answer the following Questions.

- (A) Discuss about types of parking. (5)
(B) What is channelized and unchannelized intersection? Explain diamond intersection with neat sketch. (6)

OR

Que 5 Answer the following Questions.

- (A) Give reasons why the pedestrian facility are limited in India? (5)
(B) List various types of traffic control devices and explain with sketch any one of them. (6)

Que 6 Answer the following Questions.

- (A) Write short note on "One way streets" (4)
(B) Draw any two regulatory, warning and informatory signs. (4)
(C) What is interchange and Explain three leg interchange. (4)

— END OF PAPER —