

22507

22232

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

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| 1. Attempt any FIVE of the following : | 10 |
| (a) Define Traffic Engineering. | 2 |
| (b) Write the essential road user characteristics to be considered in Traffic Engineering. | 2 |
| (c) Name the different types of Traffic Studies. | 2 |
| (d) Classify Road signs. | 2 |
| (e) Define traffic signal. | 2 |
| (f) List out the factors affecting reaction time of driver. | 2 |
| (g) Classify carriageway markings. | 2 |
| 2. Attempt any THREE of the following : | 12 |
| (a) Explain the purpose of traffic volume study of a road section. | 4 |
| (b) Explain the points to be considered while erecting road signs. | 4 |
| (c) Explain the uses of various carriageway markings. | 4 |



- (d) Draw the following traffic signs for the urban area :
- (i) Left-turn prohibited
 - (ii) No Parking
 - (iii) Railway crossing ahead
 - (iv) Hospital 4
- 3. Attempt any THREE of the following : 12**
- (a) Enumerate the advantages & disadvantages of traffic control signals. 4
 - (b) Describe channelizing islands with neat sketch. 4
 - (c) Describe the factors affecting visibility of road at night time. 4
 - (d) Define Arboriculture. Give it's objectives. 4
- 4. Attempt any THREE of the following : 12**
- (a) Discuss the factors affecting selection of type of roadside trees. 4
 - (b) Suggest the preventive measures to prevent road accident. 4
 - (c) Enumerate different causes of road accidents. 4
 - (d) Explain the considerations to be taken for road safety. 4
 - (e) Explain the legislation & Law enforcement, education in road accident studies. 4
- 5. Attempt any TWO of the following : 12**
- (a) Explain the methods of parking studies, stating necessities of it. 6
 - (b) Draw the following road markings : 6
 - (i) Center lines
 - (ii) Stop lines
 - (iii) Pedestrian or Zebra crossings.
 - (c) Explain the methods of conducting origin & destination studies stating the necessities of it. 6

- 6. Attempt any TWO of the following :** **12**
- (a) Draw the following road intersections showing traffic flow patterns on it.
 - (i) Clover leaf pattern
 - (ii) Trumpet type **6**
 - (b) Explain with neat sketch Collision diagram & Condition diagram. **6**
 - (c) Explain the following type of traffic segregation.
 - (i) Place segregation
 - (ii) Time segregation **6**
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