



22507

12223

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.

Marks

1. Attempt any FIVE of the following :

10

- (a) State the various scopes of traffic engineering.
- (b) List out the factors affecting the gradient.
- (c) Give the purpose of traffic studies.
- (d) Classify the road signs.
- (e) State the purpose of segregation of traffic.
- (f) Define 'Summit Curves'.
- (g) Give the requirements of traffic control devices.

2. Attempt any THREE of the following :

12

- (a) Describe the factors affecting the PCU.
- (b) Explain the uses of various control devices for smooth traffic flow.
- (c) Justify the need of various carriage way markings.
- (d) Draw neat sketches of typical prohibitory sign post and right turn prohibitory sign.



- 3. Attempt any THREE of the following : 12**
- (a) Enumerate the advantages of traffic signal.
 - (b) Compare the fixed time signal with manually operated signals.
 - (c) Discuss the factors affecting lighting scheme for roads.
 - (d) Describe the points to be considered for the roadside development.
- 4. Attempt any THREE of the following : 12**
- (a) Discuss the purpose of planning trees and shrubs.
 - (b) Suggest various measures to prevent road accidents.
 - (c) Explain the considerations to be taken for road safety.
 - (d) Describe the various objectives of road accident studies.
 - (e) Explain the legislation and law enforcement, education in road accident studies.
- 5. Attempt any TWO of the following : 12**
- (a) Explain the methods of parking studies, stating the necessity of it.
 - (b) Draw any four sketches of regulatory signs and warning signs.
 - (c) Explain the various forms of representation of traffic volume count data.
- 6. Attempt any TWO of the following : 12**
- (a) Explain the various types of traffic Islands along with a neat sketch.
 - (b) Explain with a neat sketch the condition diagram and symbols commonly used along with typical condition diagram.
 - (c) Draw the sketches of rotary interchange and diamond type of grade interchange.

