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12526

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answer with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **10****
- a) State any four objectives of Traffic Engineering.
- b) List essential road characteristics to be considered in traffic engineering.
- c) State the necessity of origin and destination studies.
- d) Define term Intelligent Transportation System (ITS).
- e) State any four causes of road accidents.
- f) Draw diagram for head on collision.
- g) State parking space requirement as per IS for offices and hospitals.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Explain time and delay studies in traffic.
 - b) Explain any one method of origin and destination studies.
 - c) Explain any one method of off-street parking facilities.
 - d) Describe the ill effects of parking.
- 3. Attempt any THREE of the following: 12**
- a) Explain with diagram PIEV theory.
 - b) Explain the factors affecting the reaction time for driver.
 - c) Describe speed studies and spot studies.
 - d) Define Traffic Volume and state its purposes.
- 4. Attempt any THREE of the following: 12**
- a) Explains the application of Intelligent Transportation System (ITS) in road traffic engineering.
 - b) Explain terms, foot candle and Luminaire.
 - c) Describe the factors affecting the visibility at night.
 - d) Define street light and explain its necessity.
 - e) Define arboriculture and state its objectives.
- 5. Attempt any TWO of the following: 12**
- a) Explain the difficulties in urban traffic conditions and how it can be prevented.
 - b) Explain need for parking regulations.
 - c) Describe the factors affecting selections of types of roadside trees.
- 6. Attempt any TWO of the following: 12**
- a) Describe on street parking facilities and layout.
 - b) Discuss the legislation and law enforcement education in road accident studies.
 - c) Explain following term with respect to road accidental studies.
 - i) Condition diagram
 - ii) Collision diagram.
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