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c09-c-604**3723**

**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2018
DCE—SIXTH SEMESTER EXAMINATION**

TRANSPORTATION ENGINEERING

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the classification of roads as per IRC.
2. What is transition curve? State the objectives of providing transition curve.
3. State any four controlling factors in an alignment of a road.
4. State three reasons why surface drainage is to be provided for roads.
5. Write any four functions of railway sleepers.
6. Draw a neat sketch of diamond crossing.

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7. Write any four ^{*} factors to be considered for selection of site for a railway station.
8. Explain (a) economical span, and (b) afflux.
9. State any four advantages of through bridge.
10. What are the functions of an abutment of a bridge?

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the functions of the component parts of road cross-section with a sketch.
12. (a) Write any six objectives of traffic engineering.
(b) Mention the surveys required for fixing of alignment.
- * 13. (a) Draw the sketches of (i) No parking, and (ii) Steep hill signals.
(b) Explain different junctions with a neat sketch.
14. (a) Explain how the drainage is provided for the roads.
(b) Explain different stages involved in the construction of WBM roads.
15. Explain how the expansion and contraction joints are provided in cement concrete roads with sketches.

- 16.** (a) Draw a neat sketch of cross-section of a permanent way and indicate the parts and mention the purpose of each part.
(b) State the advantages of RCC sleepers.
- 17.** (a) What are points and crossings? State their need.
(b) State the general principles of maintenance of a railway track.
- 18.** (a) What are the factors that govern the selection of ideal site for a bridge?
(b) Explain different types pier with sketches.

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