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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

DCE - FOURTH 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 functions of IRC.
2. Define the terms (a) formation width, (b) camber and (c) gradient.
3. State any three traffic surveys.
4. State the purpose of road drainage.
5. Define gauge. State the types of gauges adopted in India.
6. State any three factors to be considered for the selection of site for a railway station.
7. Draw a neat sketch of a wayside station.
8. State any three factors that influence in the selection of site for a bridge.
9. Define the terms (a) waterway, (b) linear waterway and (c) afflux.
10. State different types of wing walls.

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PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the classification of roads as per IRC.
12. Define the term road alignment. State any eight factors influencing selection of alignment for a road in plain areas.
13. Explain the clover leaf junction with a neat sketch.
14. Explain the construction of concrete roads.
15. Explain the maintenance of W.B.M roads.
16. (a) State any five requirements of a good sleeper.
(b) State five functions of ballast.
17. State the duties of a permanent way inspector.
18. Draw a neat sketch of a slab culvert.

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