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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DCE - SIXTH SEMESTER EXAMINATION

TRANSPORTATION ENGINEERING

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

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

1. State the importance of transportation engineering.
2. Mention the classification of roads as per I.R.C.
3. Define the term alignment.
4. State the necessity of road drainage.
5. List out the classification of railway, based on gauges.
6. State the types of turnouts.
7. State the classification of stations.
8. State the classification of bridges.
9. List out any two points that influence the selection of site for a bridge.
10. Define the following terms :
 - (a) Water way
 - (b) Afflux

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PART—B

15×4=60

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

11. Draw a neat sketch of road structure and indicate the different parts.
12. List the factors influencing alignment of a road in plain and hilly area.
13. Discuss about obligatory points (or) control points.
14. List out the essential requirements of road drainage system.
15. Explain the methods of providing surface drainage system.
16. State the requirements of a good rail.
17. Describe with a neat sketch about the turn-out, left-hand (or) right-hand.
18. What is the role of a civil engineer with respect to bridges?

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