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**BOARD DIPLOMA EXAMINATION, (C-16)
JANUARY/FEBRUARY—2022
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. Define camber. State three reasons for providing it.
2. Draw the neat sketch of a road structure.
3. List the different types of traffic signs.
4. Write any three advantages of bitumen roads over WBM roads.
5. Write any three functions of railway sleepers.
6. List the categories of yards in railways.
7. State any three duties of PWI.
- * 8. Differentiate between high level bridge and low level bridge.
9. Write about causeway.
10. Define economic span of a bridge.

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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. Discuss the importance of road development plans in India.
12. State the factors to be considered while fixing the alignment of a road.
13. Explain the various types of grade separations with neat sketches.
14. List the various tests to be conducted on bitumen and explain them.
15. Explain the construction of WBM road.
16. State the characteristics of a good ballast and write its functions.
17. Draw the neat sketch of left turn-out and label its parts.
18. Explain the factors to be considered for the selection of suitable site for a bridge.

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