



C16-C-404

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BOARD DIPLOMA EXAMINATION, (C-16)
OCTOBER—2020
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 any three functions of IRC.
2. State any three objectives of preliminary survey.
3. Write a short note on National Highways.
4. Define road drainage.
5. Mention any three disadvantages in having different gauges used in India.
6. Draw a neat sketch of a cross-over.
7. Mention any three duties of P.W.I.
8. What are the functions of an abutment of a bridge?
9. Draw cross-section of a pipe-culvert and label the parts.
10. State the data required for preparation of bridge project.

PART—B

10×5=50

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

11. What is super elevation? Explain the necessity of super elevation. Mention the advantages of super elevation.
12. Explain in detail various types of data required for the preparation of a highway project.
13. (a) Name and sketch any five types of pavement markings.
(b) Name and sketch any five types of warning signs.
14. Explain the method of construction of WBM road stating clearly the sequence of operations involved, materials used and machinery used.
15. Explain in detail how the maintenance of bituminous road is carried out.
16. Explain in detail all types of fixtures and fastenings along with sketches.
17. Explain in detail various types of railway station along with sketches.
18. Explain in detail various types of cause way along with near sketches.

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