



C14-C-405

4428

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
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 important functions of I.R.C.
2. Mention three kinds of road gradient.
3. Why are the traffic islands provided? Draw a neat sketch of traffic island.
4. State the purposes of providing seal coat in bituminous roads.
5. Write three advantages of flat footed rails over other rails.
6. Draw a neat sketch of 'scissors crossover'.
7. Write any three duties of P.W.I.
8. What are the constituent parts of substructure of a bridge?
9. Define (a) linear water way (b) afflux and (c) vertical clearance.
10. Differentiate between 'cut waters' and 'ease waters'.

PART-B

10×5=50

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

11. Explain the functions of component parts of road structure with a neat sketch.
12. Write any ten points that are to be kept in mind in alignment of a road.
13. What are the different types of traffic signs? Explain with two examples each .
14. Explain the construction of a W.B.M road and write any two advantages of it.
15. (a) Briefly explain the flash point test on bitumen.
(b) State different machineries used in construction of bituminous roads.
16. What are the characteristics of good ballast?
17. Draw a neat sketch of right hand turnout and explain the salient features.
18. Explain the high-level causeway with a neat sketch.

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