



C14-C-405

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DCE-FOURTH SEMESTER EXAMINATION**

TRANSPORTATION ENGINEERING

Time: 3 Hours]

[Total Marks: 80

PART-A

3X10=30

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

1. Define the terms (a) Camber (b) Plasticity
2. Identify the soil group description of the following soils according to I.S soil classification. (a) GB (b) SM (c) Pt.
- * 3. Sketch any three types of pavement markings.
4. Define flash and fire point in testing of bitumen.
5. What is coning of wheels? Sketch it.
6. Write any three factors to be considered for the selection of site for a railway station.
7. What is meant by plate laying?
8. Write six components parts of a bridge.
9. Differentiate between Deck and Through bridge.
10. Define abutment. Sketch any two types of abutments.

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PART-B

10X5=50

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

11. Define super elevation. Explain why super elevation is required in a curved path and how it is computed.
12. What are the various controlling factors that will influence the alignment of road?
13. (a) Write any four objectives of traffic engineering.
(b) Sketch any six types of traffic signs.
14. (a) State the necessity of road drainage
(b) State the essential requirements of Road drainage system.
15. Explain the method of construction of W.BM Road.
16. Describe Timber and concrete sleeper with merits and demerits.
17. (a) Explain with a neat sketch the turn table.
(b) State any four duties of P.W.I.
18. State any four classifications of bridges based on materials Explain about Low level causeway with a neat sketch.
