



C09-C-604

3723

**BOARD DIPLOMA EXAMINATION, (C-09)
OCTOBER/NOVEMBER-2018
DCE-SIXTH 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 compressibility.
2. State the importance of transportation engineering.
3. What are different types of markings on road?
4. What are requirements of a good highway drainage system?
5. Write any six disadvantages of having different gauges in India & Railways.
6. State the classification of railway station.
7. Draw a neat sketch of diameter crossing the railways.
8. Mention four reasons why skew bridges are not desirable.
9. State where the pier is constructed and write two purposes for which it is constructed.
10. (a) What is afflux? (b) State any four reasons why the afflux should be kept as low as possible.

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. Explain the I.S classification of soils.
12. (a) List the surveys required for fixing alignment for a road project.
(b) What are the plans and documents to be prepared for a road projects?
13. State and draw sketches of any eight traffic signs.
14. (a) Explain how the expansion and contraction joints are provided in cement concrete roads with sketches.
(b) Write any four advantages of bituminous roads over water bound macadam road.
15. Explain how the drainage is provided for roads.
16. (a) Draw a neat sketch of Bull headed rail fixed to a wooden sleeper and label the component parts.
(b) State any five requirements of a good sleeper.
17. Explain the duties of P.W.I.
18. Draw a neat sketch of pipe culvert and discuss its suitability.
(b) Distinguish between low level causeway and high level cause way and explain where they are preferred.

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