



c09-c-604

**3723**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**OCT/NOV—2016**

**DCE—SIXTH SEMESTER EXAMINATION**

**TRANSPORTATION ENGINEERING**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**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. Write briefly about textural classification of soil.
2. Draw cross-section of a road structure.
3. Write any four types of traffic studies generally carried out.
4. List out the construction steps for water bound macadam road.
5. Define gauge and state classification of gauges.
6. What are the main requirements of good crossing?
7. Why is maintenance of track necessary?

- \* 8. Define bridge and culvert.
9. Write any three advantages of pre-stressed concrete bridges.
10. Explain (a) economical span and (b) afflux.

**PART—B**

10×5=50

**Instructions** : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. What is a gradient? Explain different types of gradients.
12. (a) What is the information that is to be collected during preliminary surveys?  
(b) What are objects of final location surveys?
13. Explain about classification of intersections in highways with the help of neat sketches.
14. Explain the method of construction of WBM road stating clearly the sequence of operations involved size of stones and type of roller to be used.
15. Explain how the drainage is provided for roads.
16. (a) What are the functions of rails?  
(b) Explain the difference between three types of rails with the aid of sketches. 4+6=10
17. (a) Explain in detail how a diamond crossing is provided with a neat sketch.  
(b) Draw a sketch of right hand turn out and indicate the salient features.
- \* 18. (a) How are bridges classified?  
(b) Define afflux and mention the reasons why afflux should be kept low while designing the water way.

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