

3723**BOARD DIPLOMA EXAMINATION, (C-09)****MARCH /APRIL-2019****DCE - SIXTH SEMESTER EXAMINATION****TRANSPORTATION ENGINEERING**

Time: 3 Hours

Max.Marks:80

PART-A**3x10=30M****Instructions:** 1) Answer **all** questions.2) Each question carries **three** marks.

3) Assume any missing data suitable.

- 1) Define camber. State three reasons for providing it.
- 2) What is the importance of bearing capacity in foundation?
- 3) State any three objects of reconnaissance survey.
- 4) Write any three advantages of bituminous roads over W.B.M roads.
- 5) Define gauge and state classification of gauges.
- 6) List out any four points for periodical maintenance of a railway track.
- 7) State any three facilities provided in Loco yards.
- 8) Explain the terms a) Water way b) Economic span
- 9) Distinguish between culvert and causeway.
- 10) Distinguish three kinds of alignment for bridges.

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PART-B

5x10=50M

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

- 11) Explain the administrative classification of Indian roads as per IRC.
- 12) a) State the factors influencing selection of alignment for road.
b) State and explain the engineering surveys for a highways location.
- 13) State the objects of traffic survey and state various studies that are generally carried out.
- 14) Explain the construction of a W.B.M road and write any two disadvantages.
- 15) a) State the necessity of road drainage.
b) State the essential requirements of drainage system.
- 16) a) Write the function of railway sleepers.
b) State the characteristics of good ballast.
- 17) a) Explain points and crossings.
b) Draw a sketch of right hand turn out and indicate salient points.
- 18) Write the classification of bridges and explain any one of them.

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