## 4428

# BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL-2019 DCE - FOURTH SEMESTER EXAMINATION

#### TRANSPORTATION ENGINEERING

Time: 3 Hours Max.Marks: 80

#### PART-A

10x3 = 30M

**Instructions:** 1) Answer all questions. Each question carries THREE marks.

- 2) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- 1) Define the terms:
  - a) Camber b) Super elevation c) G
- 2) Write the objectives of compaction
- 3) Define traffic volume and traffic density.
- 4) State any three requirements of good highway of drainage system?
- 5) Illustrate with a neat sketch coning of wheels?
- 6) Write any three duties of PWI.
- 7) Distinguish between station and yard?
- 8) List the conditions under which large span bridges are preferred.
- 9) Differentiate between culvert and causeway.
- 10) What are the functions of an abutment of a bridge?

### PART-B

5x10=50M

Ins	<ul><li>tructions: 1) Answer any five questions. Each question carries 1</li><li>2) The answers should be comprehensive and the for valuation is the content but not the length answer.</li></ul>	criteria
11)	a) Discuss the necessity of curves in a highway design.	[5m]
	b) List the various modes of transportation of soil and Explain	them [5m]
12)	a) What is the purpose of origin and destination survey?	[4m]
	b) Explain the classification of Road junctions?	[6m]
13)	Explain the engineering surveys before a highway alignment is find a highway project?	inalized
14)	Explain the construction procedure of a WBM Road? [10]	Dm]
15.	Explain the following coats that are applied in bituminous road	ds:
	a) Prime coat b) Tack coat c) Seal coat [3+4	+3 m]
16)	a) Draw a neat sketch of cross section of a permanent way and i	ndicate
		[6m]
	b) State the advantages and disadvantages of RCC sleeper	[4m]
17)	Draw a sketch of left hand turn out indicating salient feature their purpose?	es and
18)	a) Write the classification of bridges?	[5m]
	b) Explain the low level causeway with a neat sketch?	[5m]

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