# 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) Gradient
- 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

Inst	tructions:	2) The ar	nswers should luation is the	stions. Each que be compreher content but n	nsive and the	criteria
11)	a) Discuss	the nece	ssity of curve	s in a highway	design.	[5m]
	b) List the	e various i	modes of tran	sportation of so	oil and Explai	n them. [5m]
12)	a) What is	s the purp	ose of origin	and destination	survey?	[4m]
	b) Explair	n the class	ification of Ro	ad junctions?		[6m]
13)	Explain the			fore a highway	alignment is	finalized
14)	Explain the	e construc	tion procedure	of a WBM Roa	nd? [1	0m]
15. Explain the following coats that are applied in bituminous road						ds:
	a) Prime o	coat	b) Tack coat	c) Seal c	coat [3+4	1+3 m]
16)	the pa	rts and m	ention the pu	tion of a perma	part?	[6m]
	b) State	tile auvaii	tages and dis	advantages of	RCC Sieeper	[4111]
17)	Draw a sk their purp		eft hand turn	out indicating	salient featu	res and
18)	a) Write t	:he classifi	cation of brid	ges?		[5m]
	b) Explain	the low l	evel causeway	with a neat sl	ketch?	[5m]

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