

c09-c-**604**

3723

BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL—2016 DCE—SIXTH SEMESTER EXAMINATION

TRANSPORTATION ENGINEERING

Time : 3 hours]	[Total N	Iarks	:	80

PART—A 3×10=30

Instructions : (1) Answer all questions.

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- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1.	Defir	ne gradient and mention three types of gradients.	1+2=3
2.	Defir	ne camber and list types of camber.	3
3.	State	e any three objects of carrying out traffic surveys.	3
4.	Disti	inguish between rigid pavement and flexible pavemen	nt. 3
5.	Write	e any three functions of providing railway sleepers.	3
6.	State	e any three types of station yards and state their purpos	se. 3
7.	Draw	w a neat sketch of diamond crossing.	3
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10.	Define the terms with respect to bridges— (a) free be (b) highest flood level and (c) length of bridge.	oard, 1+1+1=3
	PART—B	10×5=50
Inst	ructions : (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the for valuation is the content but not the l the answer.	
11.	Explain with a neat sketch, the functions of component pof road structure.	parts 10
12.	What are the various factors that should be kept in mind v selecting the alignment of highway?	while 10
13.	(a) What is grade separator?	
	(b) Draw a neat sketch of clover leaf interchange.	3+7=10
14.	Explain different stages involved in the construction cement-concrete roads.	n of 10
15.	Explain with sketches, how the contraction and expan- joints are provided in cement-concrete roads.	nsion 5+5=10
16.	(a) Draw a neat sketch of permanent way along with pa	ırts.
	(b) Write any six functions of ballast.	5+5=10
17.	(a) What are the duties of permanent way inspector?	
	(b) Explain the marshalling yard with a neat sketch.	5+5=10
18.	Explain the following with sketches :	5+5=10
	(a) Cause way	
	(b) Pipe culvert	

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8. Distinguish between cut water and ease water.

9. State any three advantages of through-type bridge.

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