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

TRANSPORTATION ENGINEERING

Time	e: 3 hours]	[Total Marks :	80
	PART—A	3×10=	30
Inst	ructions: (1) Answer all questions.		
	(2) Each question carries three mar	ks.	
	(3) Answers should be brief and strain and shall not exceed <i>five</i> simple	_	int
1.	Define gradient and mention three types of gradient	adients. 1+2	=3
2.	Define camber and list types of camber.		3
3.	State any three objects of carrying out traffic	surveys.	3
4.	Distinguish between rigid pavement and flexib	le pavement.	3
5.	Write any three functions of providing railway	sleepers.	3
6.	State any three types of station yards and state t	their purpose.	3
7.	Draw a neat sketch of diamond crossing.		3

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8.	Distinguish between cut water and ease water.	3	
9.	State any three advantages of through-type bridge.	3	
10.	Define the terms with respect to bridges—(a) free both (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 letter the answer.		
11.	Explain with a neat sketch, the functions of component parts of road structure.		
12.	What are the various factors that should be kept in mind valenting the alignment of highway?	vhile 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 expanjoints are provided in cement-concrete roads.	sion 5+5=10	
16.	(a) Draw a neat sketch of permanent way along with pa	rts.	
	(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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