

Register				
Lumber				

Code: 15CE54T

V Semester Diploma Examination, April/May-2019

TRANSPORTATION ENGINEERING

Tie	ne: 3 Hours] [Max. Marks: 10	0
Înst	tructions: (i) Answer any six questions from Part - A. (ii) Answer any seven questions from Part - B.	
	PART - A	
T	What is gradient? List the objects of providing gradient in Highways.	5
2.	Explain the factors controlling Highways alignment.	5
3.	What is meant by 'Soil Stabilisation'? And what are the objects of soil stabilization?	5
4.	Define the terms:	5
	(i) Afflux (ii) Byater Aar CONSOLE	
	(iii) Free board	
	(iv) Apron	
5.	Explain coffer dam and list the requirements of coffer dam.	5
6.	What are the factors to be considered while selecting a good railway alignment?	5
/.	Explain with neat sketch 'Flat Footed Rail'.	5
8.	List the duties of PWI.	5
9.	Define the terms:	5
	(i) Dock	
	(ii) Break water	
	(iii) Jetty	
	(iv) Quay	
	1 of 2 [Turn ov	rer

PART - B

		Mention the various surveys to be conducted for the most anguarant and explain briefly the final location survey.	5
	(b)		5
	Exp	Nain the method of construction of WBM road with a neat sketch.	20
12.	(a)	Classify the types of transverse joints in cement concrete roads and explain expansion joint with a sketch.	5
	(b)	Define Road arboriculture and identify the objects of Road side arboriculture.	5
13.	(a)		5
	(b)	What are the points to be considered while selecting a site for a bridge?	5
14.	(a)	Explain Economic span of a bridge and write the factors affecting the Economic span of a bridge.	c 5
	(b)	Explain bridge bearings and mention its functions. FOXY ORO	5
15.	(a)	Differentiate between coming of wheels and tilting of rails.	5
	(b)	Write a note on Mono-block pre-stressed concrete sleepers with pandrol clips.	5
16.	Wha	at is a turn-out? With neat sketch show the component parts of a turn-out.	10
17.	(a)	Explain way side station for single line with a neat sketch.	5
	(b)	Explain Marshalling yard.	5
18.	(a)	Explain the salient features of a tube railway.	5
	(b)	Show the cross-section of an elevated railway with dimensions.	5
19.	(a)	Describe the method of transferring the centre line to the inside of the tunnel.	5
	(b)	Define the terms:	5
		(i) Run-way	
		(ii) Taxi-way	
		(iii) Hanger	
		(iv) Wind rose	