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## V Semester Diploma Examination, Nov./Dec. 2017

## TRANSPORTATION ENGINEERING

Tim	e: 3 Hours   [Max	c. Marks : 100
Note	<ul> <li>(1) Part – A: Answer any six questions. Each question carries five</li> <li>(2) Part – B: Answer any seven questions. Each question carries to</li> </ul>	
	PART – A	
1.	Explain the importance of transportation.	5
2.	What is gradient? List its objects and types.	5
3.	What are the requirements of a good drainage system?	5
4.	List the classification of bridges according to all the parameters.	5
5.	Define: Scouring, Free board, Afflux, Coffer dam and Bridge bearing.	5
6.	What is creep? And list the causes of creep.	5
7.	List the functions of Ballast.	5
8.	What are the objects of signalling?	5
9,	Define: Runaway, Apron, Breakwater, Jetty and Dock.	5
	PART – B	
10.	Mention the various surveys to be conducted for road alignment and e preliminary and final location of surveys.	xplain briefly 10
11.	Explain the method of construction of WBM road with a neat sketch.	10
12.	<ul><li>(a) Compare Flexible pavement and Rigid pavement.</li><li>(b) What are the objects of Road Arboriculture?</li></ul>	10
	1 of 2	Turn over

13.		lain briefly the substructure components piers, Abutments and wing walls wit	h
114	sket	ch.	10
14.	Wh	at are the points to be considered while selecting a site for bridge?	10
15.		at are the various components of permanent way and the requirements of good	d
	raily	way track?	10
16.	(a)	Draw a typical sketch of a turn out and label the components.	10
	(b)	Explain briefly way side station on a single line section with sketch.	
17.	(a)	List the duties of PWI (Permanent Way Inspector).	10
	(b)	List the types of rail joints.	
18.	(a)	Explain briefly marshalling yard with sketch.	10
	(b)	Draw a typical cross-section of an elevated railway.	
19.	List	the objects of Tunnel Lining and also the objects of Tunnel Ventilation.	10