## B.Tech. Civil Engineering BTCLEVI

## **Term-End Examination**

## June, 2013

BICE-019: TRANSPORTATION ENGINEERING - I			
Time: 3 Hours Maximum Marks: 7			Marks : 70
Note	: Attempt any seven questions. U	Ise of scientifi	c calculator
1.	Explain the advantages of unifor Railways.	mity in gau	ge in <b>10</b>
2.	What do you understand by the two way"? What are its component		nent 10
3.	Using a sleeper density of M - number of sleepers required for railway track 640 m long (Broad	r constructi	
4.	What are the requirements of firs with suitable sketches the differ plates and their uses.	-	
5.	What is 'Crossing'? What are parts of crossing? Explain with		

Explain the classification of stations in India. 10 6. What is the purpose of providing the "turning 7. 10 zone" of airport. Explain with a neat sketches. Explain the procedure adopted to plot a wind rose 8. 10 diagram. What are the factors to be considered in selecting 9. 10 the site for a harbour? Explain in brief. Write short notes on any four of the following: 10.  $2\frac{1}{2}x4=10$ Points and Crossing (a) Check and guard rails (b) (c) Airport lightening Cargo handling equipment (d) Docks (e) (f) Runway length