R10

Code No: **RT32015**

Set No. 1

III B. Tech II Semester Supplementary Examinations, November/December – 2016

TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours Max. Marks: 70 Question Paper Consists of Part-A and Part-B Answering the question in Part-A is Compulsory, Three Questions should be answered from Part-B

PART-A

1.a)	ı	List the types of rail joints.	[4M]	
	b)	What are the objectives of providing super elevation on railway tracks.	[4M]	
	c)	List the systems of controlling the movement of train.	[3M]	
	d)	List the various visual aids in airports.	[3M]	
	e)	What are time of concentration and time of flow, with reference to airport drainage?	[4M]	
	f)	How are ports classified into?	[4M]	
PART-B				
2.a)	ı	Write the functions of sleepers?	[8M]	
	b)	Find the number of sleepers required for constructing a B.G. railway track 640m long, using a sleeper density of M+5, where M is the length of the rail in metres.	[8M]	
3. a)What is the need for providing transition curves on railways? Explain how the [8M] transition curve is decided.			length of	
	b)Ex	plain the necessity of widening of gauge on curves.	[8M]	
4.	a)Write short notes on Warner signal, Shunting signal, Disc signal and routing signal. [8M]			
	b)	Explain the working principle of centralized traffic control system and automatic train control system.	[8M]	
5.	a)	Write notes on corrections for elevation and temperature for a runway?	[8M]	
	b)	Explain about the factors to be considered for selecting a site for an airport?	[8M]	
6.	a)	How is the maintenance and rehabilitation carried out for airfield pavements?	[8M]	
	b)	Write the procedure to evaluate an airfield pavement and steps taken to strengthen it?	[8M]	
7.	a)	Differentiate between wharf, jetty and quay?	[8M]	
	b)	List the navigational aids and explain their importance? *****	[8M]	