

III B. Tech I Semester Supplementary Examinations, May - 2019 TRANSPORTATION ENGINEERING – II (Civil Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**) 2. Answer **ALL** the question in **Part-A**

3. Answer any FOUR Questions from Part-B

<u>PART –A</u>

1.	a)	Explain how the selection of gauge in railways is done.	[2M]
	b)	Describe about grade compensation on curves.	[2M]
	c)	Draw a neat sketch of line diagram of left hand turn out.	[2M]
	d)	Write a short note on taxiway marking.	[3M]
	e)	Explain design criteria for design of drainage.	[3M]
	f)	Write a short note on beacon lights.	[2M]
PART -B			
2.	a)	Explain briefly about sections of fish plates and failure of fish plates.	[7M]
	b)	Describe briefly about percussion and drag theory.	[7M]
3.	a)	How do you define the super elevation? What are the objects of providing super elevation on curves of a railway track?	[7M]
	b)	Determine the length of transition curve and draw the offsets at every 15m.Given that the design speed of the train on curve is 90 kmph on a B.G track.	[7M]
4.	a)	Explain briefly about different types of crossing with neat sketches.	[7M]
	b)	Describe briefly the major features of CRC & ATC system.	[7M]
5.	a)	What are the issues & concerns which need to be considered for future expansion and development of airports?	[7M]
	b)	Draw a neat sketch showing the details of the approach surface with references to related imaginary surfaces of an instrument approach runway and explain.	[7M]
6.	a)	Explain structural functions of airport pavement layers with a typical sketch showing component layers of the pavement.	[7M]
	b)	Write a short note on pavement condition Index (PCI).	[7M]
7.	a)	Explain how the construction of quay walls is done. Describe.	[7M]
	b)	Write a short note on wharves.	[7M]

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