III B. Tech I Semester Supplementary Examinations, October/November - 2020 TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours (Civil Engineering) Max. M			Iax. 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	
			(14 Marks)
1.	a)b)c)d)e)f)	Write down the definition of a gauge of a railway track. Explain the reasons for train derailments. Draw a neat sketch of the line diagram of the fixed heel type switch. Write a short note on Threshold marking. Explain how airport pavements are damaged due to frost action. Describe briefly about light houses.	[2M] [2M] [2M] [3M] [3M] [2M]
		PART -B	(56 Marks)
2.	-	Explain briefly about the requirements of an ideal permanent way. Describe the sleeper density and spacing of sleepers.	[7M] [7M]
3.	a) b)	Evaluate different types of gradients used in railway tracks. What would be the permissible speed on the curve? If on an 8 ⁰ M.G. track, average speed of different trains is 50 kmph and allowable cant deficiency half that of maximum cant deficiency.	
4.		Explain briefly about the requirements and characteristics of the good crossin Write down the classification of signals? Explain them.	ng. [7M] [7M]
5.		Enumerate the factors affecting site selection for an airport. Draw a neat sketch showing typical details of a boundary of inner horizon surfaces in an airport and explain.	[7M] ntal [7M]
6.		What are the main functions of airport pavements? Explain. Write the possible repairs to treat deformations of asphalt airport pavem layers.	[7M] ent [7M]
7.		Write down the classification, advantages and disadvantages of parts. Write a short note on dredging.	[7M] [7M]
