Code No: **R1631015**

R16

SET - 1

III B. Tech I Semester Supplementary Examinations, August-2021 TRANSPORTATION ENGINEERING - II

(Civil Engineering)

Tim	te: 3 hours Max. Mar	ks: 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		
1. a) b) c) d) e) f)	PART -A What is Cant Gradient? State any four ideal requirements of a permanent way. Why the removal of obstructions surrounding airport sites is absolutely necessary? Enumerate the classification of airports and their functional requirements. Distinguish between quays and jetties. What is the classification of navigational aids in a harbor?	Marks) [2M] [3M] [3M] [2M] [2M]
2. a) b)	PART -B Briefly explain the modern methods of surveys for track alignment. What is the necessity of geometric design of a railway track? Enumerate the significant features of design of a railway track.	Marks) [7M] [7M]
3. a) b)	Write a detailed note on semaphore signal with a neat sketch. Draw a neat labeled layout of a Diamond crossing and scissors cross over and explain briefly.	[7M] [7M]
4. a) b)	Explain any four methods adopted to control movements of a train and compare their merits. Explain various methods to reduce creep on railway track.	[7M] [7M]
5. a) b)	Write short notes on: i) Holding apron; ii) Approach Zone. Differentiate Nose-in parking and nose-out parking.	[10M] [4M]
ŕ	State the characteristics of air transport, which make the air traffic control a complex one. Summarize the primary functions of air traffic control devices. Explain with neat sketches any four types of navigational aids in a harbor and state their functions.	[7M]
7. a) b)	Describe with neat sketches the effect of waves on coastal structures. Explain wet docks with neat sketches. *****	[7M] [7M]