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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2022

Subj	ect (Code:3170619 Date:12-01-20	23
Subject Name:Railway and Airport Engineering Fime:10:30 AM TO 01:00 PM Instructions: Total Ma		rks:70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)	Discuss the importance of Railway in brief. Write the basic requirements of an ideal alignment. Describe airplane component parts by drawing sketch.	03 04 07
Q.2	(a) (b) (c)		03 04 0'
	(c)	Explain the factors affecting selection of railway gauge.	0'
Q.3	(a) (b)		03
	(c)	Write short note on visual aids & runway lighting. OR	0′
Q.3	(a) (b) (c)	What do you understand by loading gauge? Write the function & requirements of ballast.	03 04 07
Q.4	(a) (b) (c)		03 04 07
		OR	
Q.4	(a) (b)	What is the importance of airport grading? What is approach zone? Draw a typical sketch showing height limitation in approach zone for safety of the aircraft.	03
	(c)	Write short note on ICAO & AAI.	0′
Q.5	(a) (b) (c)	Briefly explain the semaphore signals and colored light signal.	03 04 07
Q.5	(a) (b) (c)	OR What are the functions of points & crossing? Explain scissors crossover. Define interlocking. Explain essential regulations of interlocking in Indian	0; 0; 0;

railways.