Roll 1	Vo.		es : 2 043	4.	(a)	Describe Absolute Block System for controlling movement of Trains.	the 10
		RAILWAY AND AIRPORT ENGINEERING Paper: CE-404-E	COV		(b)	Discuss the objects of Signalling. Also explain classification of Signals as per their functions.	the 10
Time	: Ti	hree Hours] [Maximum Marks	: 100			UNIT-III	
Note	: A	Attempt five questions in all, selecting at least one que	estion	5.	Disc	cuss briefly the following:	
		rom each unit.			(a)	Grade compensation and Maximum speed on Curv	es. 10
		UNIT-I			(b)	Hauling capacity of a locomotive.	10
1. (a)	Discuss the various Gauges used in India. Why preferable to use Uniform Gauge in a country?	v is it 8	6.	(a)	Discuss briefly as to how the Railway Stations classified?	are
(b)	Discuss the following: (i) Advantages of Long Welded Rails.			(b)	What are Station yards? Explain with sketch Marshalling yards and Loco yards.	hes 10
		(ii) Various defects in Rails.	12			UNIT-IV	
2. (a)	What is Creep of Rails? How is it indicated? Do the various reasons of creep in Rails and va- measures to prevent creep.		7.		cuss the various Aircraft characteristics and their effective elements of an Airport.	ects 20
(b)	Discuss the various types of Ballast used in Rai and also discuss the suitability of each type.	ilways 8	8.	(a)	Discuss the various Runway Patterns with sketches	10
		UNIT-II			(b)	What is Wind Rose Diagram? How is a runv oriented using a Wind rose diagram showing direct	
3. (a)	Draw a sketch for a Left Hand Turnout, and discrevarious parts.	uss its 12			and intensity of wind only?	10
(b)	Draw a layout sketch of a Diamond crossing.	8				

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