## **GUJARAT TECHNOLOGICAL UNIVERSITY**

		<b>BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2016</b>	
Subject Code:2160603 Date:11/05/			16
Subject Name: Railway, Bridge & Tunnel EngineeringTime: 10:30 AM to 01:00 PMTotal MarkInstructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.		70	
Q.1	(a) (b)	Write with sketch (I) Coning of wheels (II) Creep of rails What is Ballast? Write Function and requirement of good ballast	07 07
Q.2	(a) (b)	Write short note "Concrete Sleepers" Explain different types of gradient used in railway <b>OR</b>	07 07
	<b>(b)</b>	Write short note (I) Cant deficiency (II) Negative super elevation	07
Q.3	(a) (b)	Explain semaphore signals and Coloured light signals Explain methods of interlocking <b>OR</b>	07 07
Q.3	(a) (b)	<ul><li>Write short note:</li><li>(I) Metro rails (II) Mono rails</li><li>Explain causes of rail accidents and their remedial measures</li></ul>	07 07
Q.4	(a) (b)	Write types and function of bearing. Explain rocker and roller bearing Discuss with sketch erection of steel arch bridge <b>OR</b>	07 07
Q.4	(a) (b)	Write Short note on "maintenance of bridges" Write short note on "Bridge architecture"	07 07
Q.5	(a) (b)	Explain methods of tunneling in soft ground Explain various methods for "Tunnel ventilation" <b>OR</b>	07 07
Q.5	(a) (b)		07 07

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