

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name : Railway, Bridge and Tunnel Engineering

Subject Code : 4TE06RBT1

Branch: B.Tech (Civil)

Semester : 6

Date :19/05/2016

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
	a) Define : Gauge	1
	b) Enlist different type of tunnel.	1
	c) Define: sleeper	1
	d) Enlist different type of gauge.	1
	e) Define : fish plate	1
	f) Enlist material used as ballast.	1
	g) Define: bridge	1
	h) Define : Railway station	1
	i) Enlist different type of sleeper.	1
	j) Define: tunnel	1
	k) Define : Rail	1
	l) Enlist different type of bridge	1
	m) Define : ballast	1
	n) Enlist different type of rail.	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	A) Write different advantages of railway.	(7)
	B) What do you understand by loading gauge? How is it different from the construction gauge?	(7)
Q-3	Attempt all questions	(14)
	A) Explain the factors affecting selection of railway	(7)
	B) Describe reconnaissance survey for track alignment	(7)
Q-4	Attempt all questions	(14)
	A) Explain coning of wheel with neat sketch	(7)



- B) What are the functions of rail? Explain the various type of rails in use. (7)
- Q-5 Attempt all questions (14)**
- A) Write short note on CI sleeper. (7)
- B) Give the function of ballast. State the requirement of a good ballast material. (7)
- Q-6 Attempt all questions (14)**
- A) Give the classification of railway station. Draw a neat sketch of layout of any one type of station (7)
- B) Give the requirements of railway station. List function of railway station. (7)
- Q-7 Attempt all questions (14)**
- A) Give the classification of bride. Write short note on suspension bridge. (7)
- B) Enlist out the various foundation used in bridges. Explain any one in detail (7)
- Q-8 Attempt all questions (14)**
- A) Write advantages and disadvantages of tunnel. (7)
- B) Draw the various shapes of tunnel. Explain any one (7)

