Civil Engineering Department Guru Nanak Dev Engineering College, Ludhiana

2nd House Test

M.Tech 1st year

it clearly.

MTST-502 Bridge Engineering

Date:	Wed 25 Mar 15	Time: 10:30 a.m. to 12:00 noon Max. Max.	ırks 30
	write anything on ques code / IRC code / Han	stion paper except your Roll No	
1	What types of loading Structural Engineer need to consider for the design of a bridge deck. Write briefly on evolution of "Live Load" for bridges. Discuss in detail class A loading as per IRC.		
2	width is 6.8 m, kerb w A loading in designing simply supported slab	olid Slab type) for a bridge having clear span of 5 m, roadway width is 600 mm, thickness of wearing coat is 80 mm. Take class g. Constant "k" to be used in "Effective Width" calculation for is 2.8, 2.84 and 2.88 for B/L ratio of 1.4, 1.5 and 1.6. Take M20 grade of steel. Assume any missing data suitably and mention	
3	-	nents of Sub-Structure of a typical bridge, and their functions. n design of Pier. How Depth of Pier is fixed?	10
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2	•	olid Slab type) for a bridge having clear span of 5 m, roadway	10

Name various components of Sub-Structure of a typical bridge, and their functions.

Write steps involved in design of Pier. How Depth of Pier is fixed?

A loading in designing. Constant "k" to be used in "Effective Width" calculation for simply supported slab is 2.8, 2.84 and 2.88 for B/L ratio of 1.4, 1.5 and 1.6. Take M20 concrete mix and Fe500 grade of steel. Assume any missing data suitably and mention