## CE-8042

## B.E. VIII Semester Examination, June 2015

F	Pavement	Design (Elective-II)		
Time: Three Hours	http://ww	w.rgpvonline.com	Maximum Marks: 70	
Note: i) All questions carry equa	ıl marks.			
ii) Attempt five questions, select	ting one qu	uestion from each un	it.	
iii) Assume suitable data if found	d missing.			
		UNIT-1		
1. Explain various factors consid	dered in de	esign of pavements in	n detail. 14	
		OR		
2. How EQUIVALENT SINGLE	E WHEEI	L LOAD is calculated	d graphically? Explain effect	of
load repetitions. 14				
		UNIT-II		
3. Explain stresses in flexible par	vement. C	Compare stress distrib	oution according to	
BOUSSINESQUE's theory and I	BURMIST	TER theory. 14		
		OR		
4. How flexible pavement is desi	igned by (	CBR method? Explain	n in detail step by step. 14	ļ
		UNIT-III		
5. Explain (i) temperature stresse	es (ii) WA	ARPING stresses (iii)	frictional stresses 14	
		Or4		
6. Explain calculation of stresse	es in rigid	pavement by WEST	ERGAARD'S theory; 14	ļ
		UNIT-IV		
7. Explain PC A method of rigi	id paveme	ent design, step by ste	ep. 14	
		Or		
8. Discuss AASHTO method of	f rigid pav	vement design, step b	by step. 14	
		UNIT-V		
9. Explain BENKELMAN BEAL	M method	d for evaluation and s	strengthening of flexible	
pavement, with the help of neat s	sketch.	14		
		Or		
10. Explain the design of rigid or	verlays. D	Discuss evaluation of	rigid pavement by SERVICE	,
ABILITY INDEX method.	14			