## CE-8042

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

P	Pavement Design (Elective	e-II)
Time: Three Hours	www.rgpvonline.in	Maximum Marks: 70
Note: i) All questions carry equal	l marks.	
ii) Attempt five questions, selecti	ing one question from eacl	h unit.
iii) Assume suitable data if found	l missing.	
	UNIT-1	
1. Explain various factors consider	ered in design of pavemen	nts in detail. 14
	OR	
2. How EQUIVALENT SINGLE	E WHEEL LOAD is calcul	lated graphically? Explain effect of
load repetitions. 14		
	UNIT-II	
3. Explain stresses in flexible pay	vement. Compare stress di	stribution according to
BOUSSINESQUE's theory and E	BURMISTER theory. 14	
	OR	
4. How flexible pavement is desi	gned by CBR method? Ex	aplain in detail step by step. 14
	UNIT-III	
5. Explain (i) temperature stresse	es (ii) WARPING stresses	(iii) frictional stresses 14
	Or4	
6. Explain calculation of stresse	es in rigid pavement by W	ESTERGAARD'S theory; 14
	UNIT-IV	
7. Explain PC A method of rigid	d pavement design, step by	y step. 14
	Or	
8. Discuss AASHTO method of	f rigid pavement design, st	tep by step. 14
	UNIT-V	
9. Explain BENKELMAN BEAM	M method for evaluation a	and strengthening of flexible
pavement, with the help of neat s	sketch. 14	
	Or	
10. Explain the design of rigid ov	verlays. Discuss evaluation	n of rigid pavement by SERVICE
ABILITY INDEX method. 1	14	