

Roll No

CE-8202

www.rgpvonline.in

B.E. VIII Semester
Examination, June 2013
Pavement Design

Elective-II**Time : Three Hours****Maximum Marks : 100****Minimum Pass Marks :35**

Note: 1) Total Number of question 10. Answer 5 questions only
 Attempt only one Question from each unit
 2) All question carry equal marks.

Unit 1

1. Briefly explain how Equivalent single Wheel load (ESWL) is determined also explain significance of ESWL in pavement design.

OR

2. What is ESWL? What do you mean by repetition of load and how it affects design of pavement?.

Unit 2

3. Draw a typical cross section of flexible pavement .What are the different types of stresses in flexible pavement?

OR

4. Briefly explain the CBR method of pavement design as IRC guidelines.

[2]

Unit 3

5. Briefly explain How to evaluate sub grade strength for design of Rigid pavement.

OR

6. Briefly explain the following with reference to rigid pavement
 (a) warping stress (b) critical loading position.

Unit 4

7. Briefly explain transverse joint in rigid pavement. What do you mean by reliability analysis?

OR

8. Briefly explain the input parameters required for design of rigid pavement as per IRC method. Write a short note on PCA chart method or AASHTO method.

Unit 5

9. Briefly explain Benkelman beam methods or Serviceability method for evaluation of existing pavement

OR

10. What do you understand by overlay? Briefly explain different types of overlay.
