CE-501(N)

B. E. (Fifth Semester) EXAMINATION, Dec, 2010

TRANSPORTAION ENGINEERING-II

unit-I

1 (a) How a proper abgmncm of highway b sclcctad 7 10

(b) Oawify ihc road patter through neat sketches. Explain the each patters. 10 Or

2. (a) Derive an expression for finding superelevation of highway. I

(b) On a highway lag distance is known to be 36 m when reaction time of tWver is 2 sec Calculate the relevant required to develop a friction factor of 0 15. The radios of curve b 130.

Unit-ii

3.(a) How a Rerible Pavement s designed by CBR method 7

(b) plain step by step after drawing the chart used in the method. 10

(b) Classify Rigid pavement with Flexible pavement. 10

Or

4.(a) Explain the importance of fatigue und reliability In rigid rlavement design

(b) Draw a neat sketch of expansion joint. Explain the function of different parts.

Unit-iii

5.(a) What we requirements of Mechanical Stagnation ? Discuss its advantages. 10

(b) Name the different tests carried out on aggregate for road for quality control Explain any two in detail. 10

Or

6.(a) Discuss the different types of road signs with the help Of neat sketches.

(b) Explain the various factors considered in Street Lighting. 10

unit-IV

7.(a) How a suitable Site of Airport is selected ? 10

(b) How runway it oriented using windros diagram 7 10 Or

8 (a) Explain the different corrections applied in Basic Runway Length giving different formulae. 10

(b) Draw a neat cruss-section of runway. Discus the utility or different parts. 10

9. (a) Expluin the different Imaginaiy Surfaces through a neat diagram. 10

(b) Discuss the utility and importance of Routing Beacon and Boundary Lights. 10 Or

11 (a) Draw the neat diagram of Runway Lighting. Discuss the function of different parts. 10

(b) Write a note on (i) precision approach radar (ii) instrumental landing system. 10