AU – 2642

Fifth Semester B. E. (Civil Engineering) Examination

INTRODUCTION TO EARTHQUAKE

Elective - I

Paper – 5 FECE 05

(USC – 10195)

P. Pages : 2

Time : Three Hours] [Max. Marks : 80

Note : (1) Due credit will be given to neatness and adequate dimensions.
(2) I. S. 1893–2002 allowed.

1. (a) Explain interior of earth with neat diagram. 7

   (b) Explain various plate margines. 7

OR

2. (a) Explain Body and surface waves in detail. 7

   (b) Explain process of fault development and release of strain energy. 7

3. (a) Explain Magnitude and Intensity. 6

   (b) Explain working of Seismograph. 7

OR

4. Explain how to determine Epicenter by 3 point method. 13

5. Explain various seismic conceptual tips in detail. 13

OR

6. Explain importance of architectural feature in Earthquake resistant building. 13

7. (a) What is the effect of stair case at time of earthquake ? 7

(b) What do you mean by Inertia force ? How it's consideration is important in Seismic zone ? 7

OR

8. (a) Explain twisting effect at time of earthquake force. 7

(b) What do you mean by crumble section ? What is its effect on structure ? 7

9. How do masonry structure behave at time of earthquake ? 13

OR

10. What do you mean by Band ? How does it prevent total collapse at time of Earthquake ? 13

11. Explain Seismic coefficient method in detail. 13

OR

12. How does R. C. building behave at time of Earthquake ? 13