

**Course:-MT- CES-231-Earthquake resistant Design of Structure**

**Assignment No: I**

**Submission Date: 07 December 2016**

**Instructions:**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your name ,programme and enrollment number clearly at the top of the Pages

**Q.1**

- (a)What do you mean by the seismic test method?
- (b) What are the types of damages and non damages?

**Q.2**

- (a) What is the classification of causes and effects of earthquake?
- (b)Write the steps follows in design of philosophy.

**Course:-MT- CES-232-Advance soil mechanics and foundation engineering**

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**Q.1**

(a) What is the main purpose of foundation in construction? Explain the various types of foundation.

(b) What do you understand by bearing capacity of soil?

**Q.2**

(a) What is soil compaction and soil consolidation?

(b) Describe the site investigation process used in geotechnical survey.

**Course: MTCES-233-Tall Buildings**

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**Q.1**

- a) Write about the Design criteria for structural design of Tall building.
- b) What do you mean by Development of high rise architecture?

**Q.2**

- a) What do you mean by Stages of site Investigation - Site Reconnaissance & Ground investigation-Field tests & Laboratory tests?
- b) Explain Earthmoving equipment's - Horizontal and vertical movements.

**Course: MTCES-234-1- Advanced Construction Material**  
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Q.1

a) What is fiber reinforced concrete? Write also the types of fibers.

b) Write the physical and mechanical properties of fiber reinforced concrete.

Q.2

a) What do you mean by Foams and lightweight materials?

b) Write the short note on-

- i. Durability of concrete
- ii. Concrete at high temperature.