

Roll. No.....

**1223015**

**B.Tech(Integrated M.Tech/MBA) 3<sup>rd</sup> Semester Examination**

**Jan.2014**

**Engineering Geology**

**Subject Code: CEL-205**

Time Allowed: 03 hours.

Maximum Marks: 100

**Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.**

*Note: Question No. 1 is Compulsory and attempt two questions from each section. All questions carry equal marks.*

1. Answer All of the following:

- i. What are differences between Weathering and Erosion.
- ii. Briefly explain the internal structure of Earth.
- iii. What are the different types of rock? How are they formed?
- iv. Explain different types of Aquifers?
- v. What are folds and Faults?

### **SECTION-A**

2(a) What are the different forces that cause erosion?

(b) Explain in detail how water, ice and Wind help in the formation of soil from rocks?

3. What are the different mechanisms of classification of rocks? How igneous rocks are different from that of metamorphic rocks? How sedimentary rocks are formed?

4. What are faults? How are they formed? What are different basis for the classification of faults? Explain their types as well?

### **SECTION-B**

5(a) What do you understand by geological investigations? How are they important in terms of civil Engineering?

(b) What are the different types of Aquifers? How aquifers are recharged? What is the mechanism of flow of water inside our earth?

6. What do you understand by an Earthquake? What are its causes? How folds and faults effects the occurrence of an earthquake?

7. Attempt Both:

- (a) What are Dams? What are its different types? What are the different forces that act in it?
- (b) What are geological considerations for the construction of Dams? What are the different points that we look before selecting a site for a dam?