B.E. (Full Time) DEGREE END-SEMESTER EXAMINATIONS, APRIL/MAY 2011
Geoinformatics BRANCH
THIRD SEMESTER
AG 9212 APPLIED GEOLOGY
(REGULATIONS 2008)

26

Duration : **3 Hours** Max Marks : **100**

Instructions: 1. Draw neat sketches wherever necessary.
2. Answer ALL questions

PART A (10 x 2 = 20 marks)

1. Briefly describe the interior of the Earth.
2. What is meant by chemical weathering ? Describe its significance.
3. List some landforms found in the coastal zone.
4. Describe dendritic drainage pattern.
5. What is meant by specific gravity of minerals? Describe the relationship between colour and specific gravity of minerals.
6. What are the volcanic rocks?
7. Describe the image characters of a lineament.
8. What is meant by the term geophone?
9. How are tsunami caused?
10. Explain the term "seismic zonation"

PART B (5 x 16 = 80)

11. Explain the role of remote sensing in groundwater exploration. Supplement your answer with case studies.

12. (a) Give a detailed account of folds and faults in rocks.

OR

(b) Explain how the various types of weathering operate in rocks.

13. (a) Give a detailed account of the fluvial landforms and their significance.

OR

(b) List and describe the various drainage patterns observed in aerial photographs and images.

14. (a) Explain the various processes of formation of ore deposits.

OR

(b) Classify the rocks found on the earth's surface and interior. Describe the mineralogical composition, origin, texture, properties and uses of any three rocks.

15. (a) Explain in detail the causes and effects of volcanism and flood.

OR

(b) Explain how earthquake and landslides are caused. Add a note on seismicity and landslides in India.