B.E. (Full Time) DEGREE END-SEMESTER EXAMINATIONS, APRIL/MAY 2011
Geoinformatics BRANCH
FIFTH SEMESTER
AG 291 ENGINEERING GEOLOGY
(REGULATIONS 2004)

(18)

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. List the types of weathering of rocks.
2. What is jetties and groins?
3. Describe the Mohs scale of hardness of minerals.
4. Describe the properties of Calcite.
5. List some varieties of igneous rocks.
6. Explain the terms Conglomerate and breccia.
7. Bring out the differences between anticlines and synclines.
8. Explain the terms porosity and permeability.
9. What is overlap in aerial photographs.
10. How can landslides be prevented?

PART B (5 x 16 = 80)

11. What are landslides? Give an account of their causative factors, types and the role of remote sensing in landslide studies

12. (a) Write an essay on groundwater resources and their types.

OR

(b) Give a detailed account of weathering of rocks.

13. (a) Explain the properties, composition, origin and uses of quartz and feldspar group of minerals.

OR

(b) List the mineral composition, textures and engineering properties of Granite, sandstone and schists.

14. (a) How are folds formed? Explain in detail about the different folds.

OR

(b) Describe the procedure for geophysical prospecting.

15. (a) Explain the various geological conditions necessary for site selection and construction of dams.

OR

(b) Give an account of the various remote sensing techniques for civil engineering applications.