

B.E (Full Time) END SEMESTER DEGREE EXAMINATION, NOV/DEC 2011
B.E., Geoinformatics
Third Semester
AG9212 APPLIED GEOLOGY
(Regulations 2008)

Time: 3 hr

Max. Mark: 100

Answer ALL questions

PART A-(10 x 2 =20 Marks)

1. Illustrate any four types of fold structures
2. Differentiate between Normal Fault and Reverse Fault structure
3. Elucidate any four types of drainage patterns with neat sketches
4. Illustrate the wind erosion landforms
5. Write the Moh's scale of hardness of minerals
6. What are sedimentary rocks? give examples
7. How are fractures in rocks identified in images?
8. Elucidate the Wenner type of electrical resistivity method
9. Define the terms epicenter and focus of an earthquake
10. What are the causes for tsunami hazards?

PART B-(5 x 16= 80 marks)

11. Describe the erosion and depositional landforms performed by River action
12. a) What is weathering? Describe the physical and chemical weathering process and write the scale of weathering grade used in engineering projects.
Or
b) Illustrate the Internal structure of the earth and types of plate boundaries
13. a) Elucidate the physical and chemical properties of minerals with examples
Or
b) Give an account on classification of rocks. Discuss in detail the texture, classification, structure and mineral composition of Igneous rocks
14. a) Explain the role of Remote Sensing and GIS in groundwater exploration
Or
b) Describe the types of geophysical methods used for subsurface geological investigations and mineral exploration and give an account on the seismic method of prospecting method