

**R09**

**Code No: 09A32503**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**

**B.Tech II Year I Semester Examinations, May/June-2013**

**Fundamentals of Geology**

**(Mining Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any five questions  
All questions carry equal marks**

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1. Discuss engineering problems of marine erosion and deposition. [15]
2. Write short notes on
  - a) Mohr's hardness scale and ore-forming minerals.
  - b) Luster and specific gravity with suitable examples.
  - c) What is the difference between fractures and cleavage?  
Give suitable examples of minerals. [15]
3. Explain the following:
  - a) Sills and dykes
  - b) Foliation and lineation.
  - c) Ripple marks and buried river channels. [15]
4. What is fold? Give classification of folds. What is the mechanism of folds? [15]
5. Explain briefly:
  - a) Geological time scale.
  - b) Deccan traps and gondwans. [15]
6. What is hydrological cycle? Explain the vertical distribution of ground water and what are the disadvantages of engineering construction. [15]
7. Write about
  - a) Seismic zones of India.
  - b) Shield areas and seismic belts.
  - c) Intensity and magnitude of earth swane. [15]
8. Give a brief account of important mineral resources of Andhra Pradesh. [15]

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