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Concept نظرية

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2010-2011

B.Sc. (HONS.) (PART-III) EXAMINATION
(GEOLOGY)

NATURAL ENVIRONMENT (Including Elements of Remote Sensing Hydrogeology & Engineering Geology)
(GL-315)

Maximum Marks: 40

Duration: Three Hours

Answer all questions.

1. Give an outline of the concept of environmental Geology. Discuss in detail the concept of uniformitarianism. 07
OR
- 1'. Write explanatory notes on any two of the following:
 - (a) Biogeochemical cycle
 - (b) Nitrogen cycle
 - (c) Rock cycle
2. Discuss the various causes of floods and suggest some remedial measures to control flood in the Indian river systems. 07
OR
- 2'. Give a brief account of the classification of soils. Give the causes of degradation.
3. Explain briefly the environmental and geological problems related to selection of sites for tunnels. 07
4. Write explanatory notes on any two of the following: 06
 - (a) Indian Remote Sensing Programme
 - (b) Spectral signatures of soil, water and vegetation
 - (c) Framing and scanning systems.
5. Write an essay on applications of remote sensing technology in monitoring and management of natural hazards. 07
OR
- 5'. Explain the various criteria used in lithological mapping with remotely sensed data.
6. Write detailed notes on the following: 06
 - (a) Environmental impact of mining activities
 - (b) Ground water provinces of India.