

B.Sc.(Part-II)(With Credits)-Regular-Semester 2012 Sem III  
**B.Sc.2392 - Environmental Science-II (Natural Resources And GIS)**

**Paper-II**

P. Pages : 2

Time : Three Hours



**GUG/W/16/3339**

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate the answers with suitable diagrams and examples.

1. Discuss any two non – renewable energy resources. Add a note on their impacts on environment. **10**

**OR**

Explain the concept of macro and micro watershed. Write their significance.

2. Discuss tsunami and drought with their effects. **10**

**OR**

Discuss components and process of GIS. Explain its role in forest cover monitoring.

3. a) Write about biomass energy conversion method. **10**  
b) Explain how biofertilizer technology is useful for fertility of soil.  
c) How consolidated preparation for next disaster is done?  
d) Explain the concept of remote sensing.

**OR**

- e) Explain the method of obtaining energy in OTEC.  
f) Discuss the advantages and disadvantages of low cost dams.  
g) Explain how disaster mitigation mapping & manmade hazards is done.  
h) Explain the use of microwave for remote sensing.

4. a) In brief explain geothermal energy resource. **10**  
b) Give details of pit, sand media and quality of pit outlet in agriculture land for storage of water.  
c) Explain the risk mitigation strategies in disaster management.  
d) Write about digital image processing.

**OR**

- e) Discuss alcohol as a energy source.
- f) Explain reasons for loss of soil and degradation of soil.
- g) How warning and evacuation is done during a disaster?
- h) Explain spectral characteristics of earth feature for soil and water.

5. Answer in 2-3 lines **any ten.**

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- a) Define natural resources.
- b) What is bio – fuel?
- c) Give impacts of solar energy.
- d) State causes of wastage of water.
- e) Give examples of biofertilizers.
- f) Write objectives of rainwater harvesting.
- g) Give the role of National Disaster Management Authority of India.
- h) What are cyclones?
- i) Define avalanche.
- j) Define remote sensing.
- k) What is GIS?
- l) Give the role of GIS in pollution monitoring.

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