

**NTK/KW/15 – 5874**

**Fourth Semester Bachelor of Science (B.  
Sc.) Examination**

**ENVIRONMENTAL SCIENCE**

**Paper–VIII**

**(Natural Resources and GIS)**

Time : Three Hours ]

[ Max. Marks : 50

N. B. : (1) All questions are compulsory and carry equal marks.  
(2) Illustrate your answers with suitable examples and diagrams wherever necessary.

1. Discuss working of solar heaters. What are its advantages and disadvantages ? 10

**OR**

(a) Explain the method of biogas generation. 5  
(b) Describe various methods of energy conservation. 5

2. What are the consequences of over exploitation of mineral resources? Suggest conservation measures. 10

**OR**

(a) Explain roof top rain water harvesting with a neat sketch. 5  
(b) Discuss in brief the surface sources of water. 5

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Contd.

3. Discuss natural and manmade hazards with respect to mapping and analysis. 10

**OR**

(a) Explain the role of national disaster authority for disaster mitigation in India. 5

(b) What are the impacts of earthquake on human being ? 5

4. Discuss various components and the process of GIS. 10

**OR**

(a) Briefly explain the concept of remote sensing. 5

(b) Write a short note on EMR. 5

5. Attempt any **ten** :—

(i) What is fossil fuel ?

(ii) Enlist renewable resources of the earth.

(iii) Distinguish between LPG and CNG.

(iv) What is desertification ?

(v) Define watershed.

(vi) Why big dams are controversial ?

(vii) What is an avalanche ?

(viii) What are hurricanes ?

(ix) How disaster is predicted ?

(x) What is the use of microwave in remote sensing ?

(xi) Define remote sensing.

(xii) How GIS is useful for pollution monitoring ?

$1 \times 10 = 10$