

TKN/KS/16 – 5874

**Fourth Semester B. Sc. (Part - II)**  
**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 answer with suitable example and diagram

1. Discuss in detail Biogas manufacturing process with its application. 10

**OR**

- (a) Explain Nuclear energy with fission and fusion process. 5  
(b) Write a note on hydro energy as conventional source of energy. 5

2. Describe the land use pattern and policy in context of India. 10

**OR**

- (a) Write a note on conservation of mineral wealth. 5  
(b) Explain the availability of surface water in our country. 5

3. Describe in detail how volcanos are caused. Give their types arranging them in order of increasing explosiveness. 10

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Contd.

**OR**

- (a) How are earth quake produced ? 5  
(b) Explain the role of authority of national disaster management in mitigating the risk strategies. 5

4. Explain the basic concept of remote sensing and add a note on its application. 10

**OR**

- (a) Discuss the role of GIS in pollution monitoring. 5  
(b) Write informative note on digitisation procedure. 5

5. Attempt any **ten** :—

- (a) What is CNG ?  
(b) What are biofuels ?  
(c) Give the composition of biogas.  
(d) Distinguish between micro and macro watershed.  
(e) Mention the merits of rain water harvesting.  
(f) Give the classification of minerals.  
(g) What is a meaning of tsunami ?  
(h) Name the instrument use for recording earthquake.  
(i) What are cyclons ?  
(j) What are the components of GIS ?  
(k) What is the long form of EMR ?  
(l) What is the use of microwave in remote sensing ? 10

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