

NRT/KS/19/2126

Bachelor of Science (B.Sc.) Semester–IV Examination
ENVIRONMENTAL SCIENCE (NATURAL RESOURCES AND GIS)
Optional Paper–II

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable examples and diagrams.

1. Discuss the Biogas energy with its types and application. 10

OR

(a) What is meant by renewable energy ? Explain in brief renewable sources of energy. 5

(b) Write an informative note on 'conventional' sources. 5

2. Explain and discuss the aims, objective and process of Rain Water Harvesting system with its pit. 10

OR

(a) Describe in detail Ground water sources. 5

(b) What is Watershed ? Discuss its types and importance. 5

3. Explain in detail Earthquake as a natural catastrophe. 10

OR

(a) What is Natural Disaster ? Discuss its types. 5

(b) Write a short note on Floods with its impacts. 5

4. Discuss in brief about image processing. Write its spectral characteristic. 10

OR

(a) What is Remote Sensing ? Write its applications. 5

(b) Define GIS. Write its role in pollution monitoring. 5

5. Write answers in 2-3 lines (any **TEN**) :

(a) Define Natural Resources.

(b) Write the composition of Biogas.

(c) What is LPG ? Write its uses.

(d) What is Desertification ?

(e) Write two methods for formation of mineral deposits.

(f) Write the types of water resources.

(g) What is Cloud bursting ?

(h) Write a short note on Volcanism.

(i) Write a short note on Rescue and Relief operation.

(j) What is EMR ?

(k) What is digital image processing ?

(l) Write the components of GIS.

1×10=10