

**NKT/KS/17/5159**

**Bachelor of Science (B.Sc.) Semester—IV (C.B.S.) Examination**

**ENVIRONMENTAL SCIENCE**

**(Natural Resources and GIS)**

**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. Define Geothermal Energy. Describe its processing and application with suitable example. 10

**OR**

- (a) Explain the advantages and disadvantages of Nuclear energy. 5
- (b) Illustrate the consumption pattern of mineral resources in India. 5
2. Describe the objectives of Rain-water harvesting. Explain the selection of sand media. 10

**OR**

- (a) Mention the prevention method of desertification in India. 5
- (b) Explain the hydrological characteristics of watershed. 5
3. Illustrate the causes, impacts, control measures and policies for damage of Tsunami. 10

**OR**

- (a) How warning and evacuation helps during risk assessment ? 5
- (b) What is the role and salient features of National Disaster Management Authority of India ? 5
4. Define Remote Sensing. Explain concept and application of remote sensing. 10

**OR**

- (a) Explain the procedure of digitisation with suitable example. 5
- (b) Give an account on Role of GIS in pollution monitoring. 5
5. Write in short on any **ten** :
  - (a) What DNES stands for ?
  - (b) Distinguish between Nuclear fission and fusion.
  - (c) What is the composition of CNG ?
  - (d) What are the impacts of quarrying on environment ?
  - (e) Write any two conservation methods of mineral resources.
  - (f) What are impounded reservoirs ?
  - (g) Write a note on El-Nino phenomenon.
  - (h) Name the instrument used for measuring the earthquake.
  - (i) What are the causes of volcanic activities ?
  - (j) State the application of microwave in field of remote sensing.
  - (k) What are the spectral characteristics of the earth feature in relation with soil ?
  - (l) How wetland loss is measured with the help of GIS ?

1×10=10