

**NRT/KS/19/2178**

**Bachelor of Science (B.Sc.) Semester-VI Examination**  
**ELEMENTARY HYDROGEOLOGY AND GEOMORPHOLOGY**

**Optional Paper—2**

**Geology**

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw neat sketches wherever necessary.

1. (A) Describe with neat sketches zone of aeration and zone of saturation.

**OR**

(B) Give an account of springs and add a note on influent and effluent springs.

2. (A) Give an account of various types of aquifers.

**OR**

(B) Describe in brief ground water provinces of India.

3. (A) Describe the process of mass wasting and add a note on its related land forms.

**OR**

(B) Describe with neat sketches any four types of drainage patterns.

4. (A) Describe various land forms observed in karst topography.

**OR**

(B) Give an account of topography developed over folded region.

5. Write on the following in not more than two sentences (solve any **ten**) :

(A) Precipitation

(B) Draw down

(C) Evapotranspiration

(D) Porosity

(E) Permeability

(F) Give any two hydrological characters of sandstone

(G) Mesa

(H) Escarpment

(I) Graded stream

(J) Fault scarp

(K) Obsequent rift block mountain

(L) Applied geomorphology.