

**Bachelor of Science (B.Sc.) Semester–VI (C.B.S.) Examination**

**GEOLOGY**

**(Elementary Hydrogeology and Geomorphology)**

**Paper–2**

Time : Three Hours]

[Maximum Marks : 50]

**N.B. :—** (1) All questions are compulsory and carry equal marks.  
(2) Draw neat sketches wherever necessary.

1. What is Hydrologic Cycle ? Describe the occurrence and distribution of water in detail.

**OR**

What is water table ? Describe the vertical distribution of groundwater with a neat sketch.

2. Describe the hydrologic properties of rocks.

**OR**

Discuss the role of porosity and permeability in movement of ground-water. Describe hydrologic properties of :

(A) Gravel  
(B) Sandstone  
(C) Basalt.  
3. “Geologic structure is a dominant control factor in the evolution of landforms and is reflected in them”. Elaborate with examples.

**OR**

Describe various types of drainage patterns with neat sketches. Add a note on their significance.

4. Describe the topography developed over folded rocks.

**OR**

What is Karst topography ? Describe in detail various Karst topographic features.

5. Write on the following in not more than **TWO** sentences (Attempt any **TEN**) :

(A) Drawdown  
(B) Runoff  
(C) Spring  
(D) Aquitard  
(E) Aquifer  
(F) Artesian well  
(G) Mass-wasting  
(H) Nick point  
(I) Multicyclic landforms  
(J) Resequent rift block valley  
(K) Palaeogeomorphology  
(L) Fault scarp.