

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.