

KNT/KW/16/5211

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.