

B.Sc. Vth Semester (Honours) Examination, 2021 (CBCS)

Subject: Geology

Paper: CC-11

(Hydrogeology)

Time: 2 hours

Full Marks: 40

*The figures in the margin indicate full marks
Candidates are required to give their answers
in their own words as far as practicable*

1. Answer any eight of the following questions.

8x5=40

- (a) Give (in tabular form) a profile of vertical distribution of subsurface water in earth's crust.
- (b) Define: Hydrology, Geohydrology and Hydrogeology.
- (c) What is Hydrological Cycle? What are the principal components of the cycle?
- (d) Define with neat sketch 'perched aquifer'.
- (e) What are the controlling factors of surface run-off?
- (f) Define water table and piezometric surface of groundwater.
- (g) What do you mean by 'Intrinsic permeability'?
- (h) Briefly describe the factors which affect permeability.
- (i) Define specific yield. How specific yield and specific retention related with porosity?
- (j) Give the classification of aquifers on the basis of the nature of the covering layer.