

B. Sc. 5th Semester (Honours) Examination, 2021

GEOLOGY

Course ID: 52017

Course Code: SHGEL-504DSE-2(T)

Course Title: Exploration Geology

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the right-hand side margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any five of the following questions: 1x5 = 5
 - a. Mention an important factor which controls the geochemical dispersion of elements?
 - b. What is the pathfinder element for vein-type gold mineralisation.
 - c. Name two geophysical methods used in hydrocarbon exploration.
 - d. What is the full form of M.P.O.I?
 - e. Name two elements which are chemically less mobile.
 - f. What is the pathfinder element for uranium mineralisation.
 - g. What is geochemical anomaly.
 - h. What is atmogeochemical method for mineral exploration?

 2. Answer any two of the following questions: 5x2 = 10
 - a. Give a flow chart which summarises the sequence of work done in mineral exploration.
 - b. Explain the reasons for use of pathfinder elements in exploration program.
 - c. Describe pedogeochemical methods for mineral exploration.
 - d. Write the important characteristics of primary and secondary geochemical environments?

 3. Answer any one of the following questions: 10x1 = 10
 - a. Briefly describe the primary and secondary dispersion patterns for mineral exploration
 - b. Describe the surface geological and geochemical methods used for petroleum exploration.
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