

SH-V/Geology-504DSE-219

B.Sc. 5th Semester (Honours) Examination, 2019

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 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: 1×5=5
- (a) Name two elements which have high mobility.
 - (b) Mention the subdivisions of ore reserves in order of decreasing geological confidence.
 - (c) What is the indicator plant for zinc mineralization?
 - (d) Define geochemical anomaly.
 - (e) What is pedogeochemical method for mineral exploration?
 - (f) Define pathfinder element in mineral exploration.
 - (g) Define logging in mineral exploration.
 - (h) Define homogeochemical method in mineral exploration.
- 2.** Answer *any two* of the following questions: 5×2=10
- (a) Give a flow chart which summarises the sequence of work done in mineral exploration.
 - (b) Describe geobotanical and biogeochemical methods for mineral exploration.
 - (c) Briefly describe different types of electrical logging and their uses.
 - (d) Explain the reasons for use of pathfinder elements in exploration program.
- 3.** Answer *any one* of the following questions: 10×1=10
- (a) Discuss the advantages and limitations of application of remote sensing in mineral exploration.
 - (b) Briefly describe the general principles and uses of seismic methods in mineral exploration.
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