

SH-V/Geology-502C-12/19

B.Sc. 5th Semester (Honours) Examination, 2019-20

GEOLOGY

Course ID : 52012

Course Code : SHGEL-502C-12(T)

Course Title : Economic 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) What is an ore?
 - (b) What is tenor?
 - (c) Define epigenetic ore deposit.
 - (d) What is cockade ore?
 - (e) Name one important economic mineral occurring in Greenstone belt.
 - (f) Define VMS deposit.
 - (g) Name a complex ore which can yield two metals.
 - (h) What is eluvial placer deposit?
- 2.** Answer *any two* of the following questions: 5×2=10
- (a) Compare between stratiform and stratabound ore deposits with examples.
 - (b) Describe the important geochemical characteristics of ore forming hydrothermal solution.
 - (c) Describe various types of placer deposits.
 - (d) Write short notes on (i) porphyry-type deposit, (ii) skarn deposit
- 3.** Answer *any one* of the following questions: 10×1=10
- (a) Briefly describe the magmatic processes responsible for the formation of ore deposits.
 - (b) Describe the processes of supergene enrichment of base metal sulphide deposits.
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