

B.Sc. Semester-V Examination, 2022-23**GEOLOGY [Honours]**

Course ID : 52012 Course Code : SH/GEL/502/C-12(T)

Course Title : Economic Geology

Time : 1 Hour 15 Minutes

Full Marks : 25

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

1. Answer any **five** of the following questions: $1 \times 5 = 5$
- What is *telethermal deposit*?
 - Name an environmental setup for the formation of *evaporites*.
 - Name two hydrothermal alteration types associated with epithermal gold deposit.
 - What do you mean by *colluvial placer* deposit?
 - What is *SEDEX* deposit?
 - Define *industrial minerals*.
 - Write two uranium producing places in India.
 - Name a gemstone which is organic.

2. Answer any **two** of the following questions: $5 \times 2 = 10$

- a) Compare between the followings: $2 \frac{1}{2} + 2 \frac{1}{2}$
- Epigenetic and Syngenetic deposits
 - Greenfield and Brownfield explorations
- b) Write a short note on manganese nodules.
- c) Discuss on the liquid/magma segregation as an ore forming process.
- d) Describe the Supergene enrichment process with a neat sketch.

3. Answer any **one** of the following questions: $10 \times 1 = 10$

- a) Give a detailed description on the early and late magmatic processes of ore formation. 10
- b) What do you mean by porphyry type ore deposit? Discuss on the age, geological setting, and type of mineralization of Malanjkhand copper deposit. $2 + (1 + 3 + 4) = 10$