

**B. Sc. 5<sup>th</sup> Semester (Honours) Examination, 2021**

**GEOLOGY**

**Course Title: Economic Geology**

**Course ID: 52012**

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

**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: 1×5=5

- a. What is Protore?
- b. Mention one sulphide ore of copper.
- c. What is Geological Resource Modeling?
- d. Define hydrothermal solution.
- e. Name one economic mineral hosted by pegmatite.
- f. What are gangues?
- g. Mention two diamond occurrences in India
- h. What is skarn deposit?

2. Answer any two of the following questions: 2×5=10

- a. Compare between hypogene and supergene processes of mineralization.
- b. Write a short note on SEDEX deposits.
- c. Briefly describe different types of placer deposits.
- d. Match the following columns:

A. Zawar	I. Chromite
B. Alluvial gold	II. Copper
C. Skarn	III. Lead and Zinc
D. Bushveld Complex (S. Africa)	IV. Calc-silicate minerals
E. Porphyry type	V. Placer deposit

3. Answer any one of the following questions: 10×1=10

- a. Describe the iron ore deposits of Singhbhum area.
  - b. Briefly describe the magmatic processes of ore formation with necessary sketches.
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