

Total number of printed pages-3

**3 (Sem-5/CBCS) GLG HC 1**

**2024**

## **GEOLOGY**

(Honours Core)

Paper : GLG-HC-5016

**(Economic Geology)**

Full Marks : 60

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

1. Write short answers of the following as directed : 1×7=7
  - (a) Define tenor.
  - (b) What is hydrothermal solution ?
  - (c) Give examples of late magmatic mineral deposit.
  - (d) Define magnetic anomaly.
  - (e) Name two types of electrical logging.

Contd.



- (f) Write the main characteristics of tabular ore bodies.
- (g) Write the name of major ore of aluminium.
2. Write brief answers to the following questions :  $2 \times 4 = 8$
- (a) How late magmatic deposits are formed ?
- (b) Define borehole logs.
- (c) What do you mean by gossan ?
- (d) Write four examples of gemstones.
3. Write short notes on the following : **(any three)**  $5 \times 3 = 15$
- (a) Residual liquid segregation
- (b) Resistivity method of geophysical exploration
- (c) Skarn deposits
- (d) Concordant ore bodies
- (e) Distribution of copper ore deposits in India.

4. Answer the following questions : **(any three)**  $10 \times 3 = 30$

- (a) Write in detail about the early magmatic ore deposits.
- (b) Discuss about hydrothermal process of ore formation.
- (c) Write about the seismic method of Geophysical exploration.
- (d) What are the necessary conditions for the formation of a placer deposit ? Write about the types of placer deposits.  $3 + 7 = 10$
- (e) Write about the rotary drilling method of oil exploration.
- (f) Write in detail about the origin and distribution of lead and zinc ores in India.