

**B.Sc. Vth Semester (Honours) Examination, 2020 (CBCS)**

**Subject: Geology**

**Paper: CC-12**

**(Economic Geology)**

**Time: 2 hours**

**Full Marks: 40**

*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 eight of the following questions.**

8x5=40

- (a) What are ores, ore-minerals and gangue minerals? Give examples.
- (b) What are the important differences between SEDEX-type and MVT deposit? Give one example of Indian Pb-Zn deposit.
- (c) What are the features useful in deducing an ore deposit as orthomagmatic deposit? Give an Indian example.
- (d) Discuss on the forces that cause the hydrothermal fluid migration.
- (e) What are the controlling factors that favour placer deposit? Give two Indian examples of placer deposit. What are the important locales of fluvial placer deposit?
- (f) What are some economically important mineral deposits associated with pegmatite? Why are these minerals enriched in pegmatite? Give one Indian example of pegmatite hosted ore deposit.
- (g) What are the differences between Algoma-type and Superior-type iron ore formation? Give one example of Indian iron ore deposit.
- (h) What are the controlling factors that favour bauxite formation? Give one example of Indian bauxite deposit.
- (i) What is the major source of phosphate? How is it formed? Give one Indian example of phosphate deposit.
- (j) What are gemstones? Name two gemstones of corundum group. Mention two Indian occurrences of gemstones.