No. of Printed Pages : 4

5-SEMS-Geol-CC-XII(R&B)

2023

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions. Figures in the right hand margin indicate marks.

<u>GROUP – A</u>

1. Fill in the blanks. (all)	[1 × 8
(a) Three forms of bauxite are	
(b) Black mica is also known as	
(c) An amber coloured mica is also known as	
(d) The banded-hematite-quartzites are of	origin.
(e) Azurite is an ore mineral of	
(f) Lepidolite is an ore mineral of	
(g) The formula of mineral cuprite	
(h) is the major ore of Aluminium.	

GROUP - B

- Write notes on <u>any eight</u> of the following within two to three sentences each.
 [1¹/₂ × 8]
 - (a) Grade
 - (b) Resources
 - (c) Mineralogy of iron
 - (d) Ore minerals
 - (e) Industrial minerals
 - (f) Host rock
 - (g) Assay value
 - (h) Cut-off grade
 - (i) Mineralogy of copper
 - (j) Comb structure

<u>GROUP – C</u>

3. Write notes on any eight of the following within 75 words each.

[2 × 8

- (a) Trenching
- (b) Augering and washboring

APP-4413-Sem-V-23-Geol(C-12)/90

[2]

[3]

- (c) Drilling
- (d) Ore districts
- (e) Metallogenic epoch
- (f) Ore deposits
- (g) Gangue minerals
- (h) Drilling
- (i) Gravity methods
- (j) Self-potential methods

<u>GROUP – D</u>

Answer all questions within 500 words each.

Explain the modern classification of ore deposits.

OR

Discuss briefly the important metallogenic provinces of India.

Describe in detail the stages of mineral exploration.

OR

Write in brief about the geochemica! exploration method.

 Discuss the mode of occurrences, mineralogy and distribution of iron deposits.

P.T.O.

OR

Discuss Lead and Zinc deposits.

7. Describe mode of occurrences, mineralogy of graphite deposits.

OR

Describe mode of occurrences, mineralogy of limestone deposits.

[6