

424162

S-4211

M.Sc. (Fourth Semester)

Examination, 2024-25

GEOLOGY

Paper – Second

(Ore Genesis and Indian Mineral Deposits)

(GEOL-C-017)

Time : Two Hours]

[Maximum Marks : 60

Note : Attempt any *four* questions. All questions carry equal marks.

1. Give a detailed account of the ore bornay process of magnetic concentration with suitable Indian examples. 15
2. Write down a Critical account of structural and stratigraphic controls of mineralization & give examples in support of your answer. 15
3. The ore bornay process of sedimentation leads to the formation of valuable mineral deposits of iron, manganese, copper, phosphate, coal, Oil shales, carborates, etc. Do you agree to this? So discuss. 15

Give a brief account the critical minerals and their deposits in India and discuss their importance in the economic development and national security of the country. 15

5. Write down a detailed geological account of the important coalified in India. 15
6. Discuss in brief the new national mineral policy (NMP) in India and how it focuses on promoting domestic industry, reducing import dependency and fair allocation of mineral resources? 15
7. Write in brief on the mode of occurrences and distribution in India of any *five* of the following :
 - (a) Magnesite.
 - (b) Asbestos.
 - (c) Graphite.
 - (d) Clays.
 - (e) Gypsum.
 - (f) Ochre.
 - (g) Mica.

Comment in brief on the mode of occurrence and distribution in India and use for any *three* of the following : 15

- (a) Copper Deposits.
 - (b) Lead and Zinc.
 - (c) Iron Ores.
 - (d) Tungsten deposits.
 - (e) Manganese Ores.
 - (g) Mica.
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