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UG/5th Sem/Geolo(H)/T/19

2019

B.Sc. (Honours)

5th Semester Examination

GEOLOGY

Paper - C12T

(Economic Geology)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions from the following.

5×2=10

1. What is gossan ?
2. What are grade and cut-off grade of an ore ?
3. What are Mn-nodules ? Where are they formed ?
4. Write the names of two copper-sulphide ores.

[Turn Over]

(2)

5. What is indicator plant ? Give examples.
6. Differentiate between Inferred and Indicated Mineral Resource.
7. Define metallogenic province with examples.
8. What are industrial minerals ? Give examples.

Group - B

Answer any *four* of the following questions.

4×5=20

9. What is 'Rank' of coal ? How do you identify coals of different ranks starting from lignite or brown coal ?
10. Describe the chief magmatic ore-forming processes with examples of ore deposits formed from each process.
11. Differentiate between any *two* of the following :
2×2½
 - (a) Bushveld type vs Alpine type chromite.
 - (b) Algoma type vs Superior type BIF.
 - (c) SEDEX VS VMS type deposits.
12. Write about Neyveli lignite deposit.

(3)

13. Write down the geophysical methods used for different types of mineral prospecting in a tabular form.
14. Write short note on types of placer deposits with neat sketches.

Group - C

Answer any *one* of the following questions :

1×10=10

15. Write a note on Manganese deposits of Central India emphasizing on general geology, mineralogy, mode of occurrence and genesis of the deposits.
 16. Write about different types of hydrothermal ore deposits with neat sketches.
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