



C16-MNG-306

5502

BOARD DIPLOMA EXAMINATION, (C-16)  
MARCH/APRIL—2018  
DMNG—THIRD SEMESTER EXAMINATION  
MINING GEOLOGY—III

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions** : (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define the term stratigraphy.
2. List any six fossils of Gondwana system.
3. Define the terms (a) associated mineral, (b) tenor of ore and (c) gangue of ore.
4. List the end products of magmatic concentration process.
5. Define the term proved reserves.
6. List the different methods of geophysical prospecting.
7. List the tools used in the field to locate the mineral deposits.
8. Define the term geological prospecting.
9. List the important coal fields in India.
10. List the applications of geographical information system to mining industry.

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**PART—B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11.** Write an essay on geological time scale.
- 12.** Explain the classification of Vindhyan system of rocks and state its mineral importance.
- 13.** Explain the oxidation and supergene enrichment process of mineralization.
- 14.** Explain the hydrothermal process and state the mineral deposits formed by the process.
- 15.** Explain the electrical resistivity prospecting method.
- 16.** Explain the gravity method of prospecting while limiting to the principle and its applicability.
- 17.** Write an essay on origin, migration and accumulation of petroleum.
- 18.** Explain the theory of plate tectonics.

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