



C20-MNG-306

7267

**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2023**

**DMNG – THIRD SEMESTER EXAMINATION
MINING GEOLOGY**

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. State the objectives of stratigraphy.
2. State the economic importance of Vindhyan rocks.
3. Define the terms (a) Resource and (b) Reserves.
4. List any three various processes of mineralization.
5. List the equipment required for preliminary prospecting ore deposits.
6. List any three geophysical methods of prospecting.
7. State the different stages of coal formation.
8. State the distribution of oil fields in India.
9. Define the terms (a) Runoff and (b) Infiltration.
10. List any three factors affecting infiltration.

PART—B

8×5=40

Instructions : (1) Answer *any five* questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Explain the Gondwana systems distribution classification and state its economic importance.

(OR)

(b) Explain the stratigraphy of Andhra Pradesh.

12. (a) Explain the metamorphic process of mineralization and list the minerals formed in the process.

(OR)

(b) Explain the sedimentation and evaporation processes of mineralization.

13. (a) Explain the gravity methods of geophysical prospecting for ore deposits.

(OR)

(b) Explain the radiometric method of geophysical prospecting for minerals/ore deposits.

14. (a) Explain the In-situ and drift theories of coal seams formation.

(OR)

(b) Describe the coalfields of India.

15. (a) Explain the hydrological cycle with a sketch.

(OR)

(b) Explain evaporation and evapotranspiration.

PART—C

10×1=10

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

16. Explain the physiographic divisions of India.

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