



C20-MNG-106

**7056**

**BOARD DIPLOMA EXAMINATION, (C-20)  
OCTOBER/NOVEMBER—2023  
DMNG – FIRST YEAR EXAMINATION  
FUNDAMENTALS OF GEOLOGY**

Time : 3 Hours ]

[ Total Marks : 80

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**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 uses of geology in mining field.
2. Define the terms erosion and denudation.
3. Define physical geology.
4. Write a short note on sand dunes.
5. Give the industrial uses of the following minerals :
  - (a) Mica
  - (b) Barytes
  - (c) Chromite
6. State a few mineral based industries in India.
7. Distinguish between textures and structures of rocks.
8. Write the classification of igneous rocks according to their depth of formation.

9. Define the term joints in rocks.
10. Define the terms inliers and outliers.

**PART—B**

8×5=40

**Instructions :** (1) Answer **all** 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) Describe various methods of determining age of the earth.

**(OR)**

(b) Explain the internal structure of earth with a neat sketch.

12. (a) Describe the geological work carried by water.

**(OR)**

(b) Describe the different types of earthquakes.

13. (a) Describe various physical or megascopic properties of minerals with examples.

**(OR)**

(b) State the occurrence and distribution of important minerals in India and A.P.

14. (a) State the classification of sedimentary rocks and explain the formation of sedimentary rocks.

**(OR)**

(b) Describe the different structures of igneous rocks.

15. (a) Describe the different kinds of folds with sketches.

**(OR)**

(b) State the formation of an unconformity. How do you recognize unconformity in field?

**PART—C**

10×1=10

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

**16.** Discuss the origin and behavior of lava till it consolidates on the surface of earth.

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