



C14-MNG-601

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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DMNG—SIXTH SEMESTER EXAMINATION
ADVANCED METAL MINING METHODS

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. List the merits of breast stoping.
- * 2. List the applicabilities of underhand stoping.
3. Give the classification of stoping methods based on the method of support.
4. List the limitations of cut and fill stoping.
5. List the applicabilities of shrinkage stoping.
6. State the merits of ring hole drilling.
7. List the sources of heat in mine air.
8. List the factors which change density of mine air.
9. List the objectives of sampling.
10. Define the term assaying.

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[*Contd...*

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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.** Explain the method of underhand stoping system with a neat sketch.
- 12.** Sketch and explain hydraulic fill stoping method and state its applicabilities.
- 13.** Explain the method of vertical crater retreating with a sketch.
- 14.** List the limitations, applicabilities, merits and demerits of square set timbering.
- 15.** List the main difficulties associated with deep mining.
- 16.** Explain the fall of efficiency of miner working in hot and humid deep mines.

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- 17.** (a) Explain the channel sampling. 7
(b) List the applicabilities of channel sampling. 3
- 18.** (a) Explain bulk sampling. 6
(b) State the applicabilities of bulk sampling. 4
