



C14-MNG-601

4762

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DMNG - VI 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) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 Define the term stopping.
- 2 Give the classification of stopping methods with respect to its attack.
- 3 List the limitations of open stopes.
- 4 List the merits of Hydraulic fill stoping method.
- 5 List the merits of shrinkage stoping.
- 6 List the demerits of ring hole drilling.
- 7 Define the term density of mine air.
- 8 List temperature measuring instruments used in deep mining.
- 9 Define the term sampling.
- 10 State the purpose of coning and quartering method.

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[Contd...

PART - B

10×5=50

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

- 11 Explain the method of overhead stoping system with a neat sketch.
- 12 Explain the method of open stoping system.
- 13 Explain the method of sub-level stoping with sketch.
- 14 Sketch and explain square set timbered stoping method.
- 15 List the main difficulties associated with deep mining in strata control and environment.
- 16 Explain bulk sampling method.
- 17 Explain the fall of efficiency of miner working in hot and humid deep mines.
- 18 Explain channel sampling and chip sampling.