

### C16-MNG-404

### 5697

## BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL-2018

**DMNG—FOURTH SEMESTER EXAMINATION** 

METHODS OF WORKING METAL

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 different metal mines of world.
  - 2. Define the following terms :
    - (a) Gangue
    - (b) Vein
  - **3.** State the purpose of ore bin.
  - 4. Define the following terms :
    - (a) Ore shoot
    - (b) Sublevel
  - **5.** Define the term drop raising.
  - 6. Classify the raising method.
  - 7. List the applicabilities of Alimak raise climber.

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- 8. List the merits of (reaming) raise boring.
- 9. Give the classification of stoping methods.
- **10.** List the disadvantages of square set timbering method.

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 occurrence and distribution of different metals in India.
- **12.** Sketch and explain the ore pass.
- **13.** Explain the method of drivage with tunnel boring machine (TBM).
- 14. Sketch and explain the method of alimak raising method.
- **15.** Sketch and explain the long hole raising.

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- 16. Explain the method underhand stopping systems with a sketch.
- **17.** Sketch and explain cut and fill method stoping.
- **18.** Sketch and explain vertical crater retreating method.

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