



C16-MNG-404

**5697**

**BOARD DIPLOMA EXAMINATION, (C-16)  
OCTOBER/NOVEMBER-2018  
DMNG - FOURTH SEMESTER EXAMINATION**

**METHODS OF WORKING METAL**

*Time : 3 Hours ]*

[ Total Marks: 80

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**PART-A**

3X10=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. List different metal mining based industries in India.
2. Define the terms with sketch (a) Footwall (b) Hanging wall.
3. Define the terms with sketch (a) Ore pass (b) Ore bin
4. Define the terms with sketch (a) Cross cut (b) Ore chute
5. State the purpose of drivages.
6. List the classification of raising methods
7. List the applicabilities of Alimak raise climber
8. Define the term down reaming with sketch.
9. List factors governing selection of stopping methods.
10. List the merits and demerits of Underhand stoping

**PART-B**

10X5=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. Sketch and explain the ore pass
12. Explain the factors considered for selection of level intervals.
13. Sketch and explain the long hole raising method.
14. Sketch and explain Jora raise method
15. Sketch and explain the method of alimak raising method
16. Explain the method underhand stopping systems with a sketch
17. Explain the method of Vertical crater retreating method with sketch
18. Explain the method of Sub-level stoping with a sketch

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