



C14-MNG-601

4762

**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DMNG-SIXTH SEMESTER EXAMINATION**

ADVANCED METAL MINING METHODS

Time : 3 Hours]

[Total Marks: 80

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

1. List merits of underhand stoping.
2. List applicabilities of overhand stoping.
3. List the merits of cut and fill stoping.
4. List the applicabilities of open stopes.
5. State the applicabilities of sublevel stoping.
6. List the merits and demerits of ring hole drilling.
7. Define the terms relative humidity, dew point.
8. List the instruments for measuring Cooling power of mine air.
9. List the equipments required for collection channel sampling.
10. Define the term “salting”.

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. Explain the method of Breast stoping system with a neat sketch.
12. Explain the cut and fill stoping method.
13. Explain the method of sub-level stoping with a sketch.
14. Sketch and explain the method of shrinkage stoping method.
15. List the difficulties associated strata control with deep mines.
16. Explain the heat stroke and its effect, preventive measures in deep mines.
17. (a) Explain the general principle sampling.
(b) List the applicabilities of chip sampling.
18. (a) Define the term Assaying.
(b) Define the term Assay value.
(c) Define the term Assay plan.
(d) Define the term “Assay Average” and write formula to compute average assay value.
