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C09-MNG-403

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**BOARD DIPLOMA EXAMINATION, (C-09)
OCTOBER/NOVEMBER-2018
DMNG - FOURTH SEMESTER EXAMINATION**

METAL MINING

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 and shall not exceed five simple sentences.

1. Define the terms (a) ore bin (b) ore chute.
2. Define the terms (a) cross cut (b) sub level.
3. State the purpose of ore passes with sketch with its location.
- * 4. State the applicabilities of open stopes.
5. State the applicabilities of sublevel stoping.
6. State the merits of shrinkage stoping
7. Define the term rock burst.
8. List the causes of heat stroke.
9. State the purpose of coning and quartering.
10. State the formula to computer average assay value.

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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 position of ore drives, raises, winzes along the foot wall and center of the orebody.
12. Sketch and explain the arrangement of loading and hauling of broken rock in steep inclines.
13. Sketch and explain the method of raise boring.
14. List the factors governing the selection of stoping methods.
15. Compare the underhand stoping with overhand stoping method.
16. Sketch and explain the method of ring drill stoping.
17. Explain the change in water chloride metabolism of human body.
18. Explain different sampling methods used in mining.
