



C09-MNG-403

**3514**

**BOARD DIPLOMA EXAMINATION, (C-09)**

MARCH / APRIL - 2019

**DMNG - IV SEMESTER EXAMINATION**

**METAL MINING**

Time : 3 Hours]

[Total Marks : 80

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**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.

- 1 Define the term mineral.
- 2 State the conditions under which haulage is laid along plane of orebody.
- 3 Mention the conventional methods of driving level heading.
- 4 State the applicabilities of open stopes.
- 5 State the merits of sub-level stoping.
- 6 State the limitations of ring hole drilling.
- 7 List the difficulties associated with deep mining.
- 8 Define the term heat stroke.
- 9 State the details to be shown on assay plan.
- 10 State the bulk sampling and its applicability.

**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 Illustrate position of ore drives, raises, winzes along the foot wall and centre of the orebody.
- 12 Define (a) Crosscut (b) Level (c) Sub level (d) Sill pillar.
- 13 Sketch and explain the method of two compartmental raising.
- 14 Explain the sublevel caving method with sketch.
- 15 State the preparatory arrangements for commencement of stope development.
- 16 Explain the underhand stoping with sketch.
- 17 List causes and preventive measures of lock burst.
- 18 Explain chip sampling and its applicabilities.

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