



C09-MNG-603

**3788**

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

MARCH / APRIL - 2019

**DMNG - VI SEMESTER EXAMINATION**

**OPENCAST MINING**

Time : 3 Hours]

[Total Marks : 80

**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 Angle of repose.
- 2 List the different forms of surface mining.
- 3 Define the terms : (a) Box cut (b) Trench cut
- 4 List any three merits and demerits of inclined drilling.
- 5 List the different patterns of drill holes employed in open cast mines.
- 6 List the main parts of the Shovel.
- 7 List the place of application of the Road graders.
- 8 List Applicable conditions of in pit crushing technology.
- 9 List the essential features of EMP.
- 10 Define Ecology with particular reference to mining.

3788 ]

1

[ Contd...

**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 List the different merits and demerits of surface mining.
- 12 Explain with sketch the Layouts of semi mechanised open cast mine. Assume your own conditions.
- 13 (a) List the danger due to blasting practice in open cast mines.  
(b) List the preventive measures due to blasting practice in open cast mines.
- 14 List the main parts, functions and place of application of drag lines.
- 15 List the main parts, state the function and place application of Dumper.
- 16 List the main parts, functions and place of application of shovel.
- 17 List the applicable conditions, merits and demerits of bucket wheel excavator.
- 18 Explain the necessity of Environment Management Plan and salient features of EMP.