



C09-MNG-603

3788

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

OPENCAST 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) Alluvial Mining (b) Strip Mining.
2. Define the terms (a) Floor of bench (b) Depth of hole.
3. List the different stages of surface mining.
4. Classify the drill holes basing on depth.
5. List any three merits and demerits of vertical drilling.
6. List the place of application Wagon Drill.
7. List the main parts of the Dozer.
8. List the merits and demerits of bucket wheel excavator.
9. List the essential features of EMP.
10. Define Ecology with particular reference to mining.

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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. Define the following terms (a) Spacing (b) Toe (c) Crust (d) Stripping ratio (e) Angle of Repose (f) Burden.
 12. Explain with sketch the layouts of Semi Mechanised Open Cast Mine. Assume your own conditions.
 13. Explain the difference patterns of drill holes employed in opencast mines.
 14. List the main parts, functions, and place of applications of drag line applications of drag line sketch.
 15. List the main parts and functions of the Road Scrapper with a neat sketch.
 16. List the main parts, functions, and place of applications of shovel with sketch.
 17. (a) List the applicable conditions, merits and demerits of surface miner.
(b) Explain the method of working.
 18. Explain the various problems of Environmental and Ecology as a result of mining operations.
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