



C09-MNG-604

3789

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

MINING MACHINERY-II

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. State the purpose of air leg.
2. State the application of twin in board AFC.
3. List the types of hydraulic control systems.
4. State the use of flame proof apparatus in mining.
5. List methods of signalling in mines.
6. List the demerits of flexible guides and its purpose.
7. List types of winding drum.
8. List the merits of rigid guides.
9. List the fittings of turbine pump.
10. Define the term friction head.

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 Principles of working AFC with neat sketch.
12. Describe the working of Jack Hammer drill (Hammer Rock Drill) with a neat sketch.
13. Describe the gate end switch gear used for coal drills with a neat sketch.
14. Explain the shaft signalling system with a neat sketch.
15. Describe the cage winding with a neat sketch.
16. Describe the pit top arrangement with a neat sketch.
17. Sketch and explain the hydraulic balancing disc and explain End-thrust.
18. Draw the comparison between reciprocating pump vs. centrifugal pump.

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