



C14-MNG-404

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**4468**

**BOARD DIPLOMA EXAMINATION, (C-14)  
OCTOBER/NOVEMBER-2018  
DMNG-FOURTH SEMESTER EXAMINATION**

MINING MACHINERY-II

Time: 3 Hours]

[Total Marks: 80

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**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 short wall coal cutting machine.
3. List the applications of AFC.
- \* 4. Define (a) Flame proof apparatus (b) Intrinsically safe apparatus.
5. List the methods of signaling in mines.
6. State the purpose of winding in shafts.
7. List the shaft fittings.
8. State the applicability of rigid guides in winding.
9. List different types of brakes used in winding.
10. Classify the cables used in mines

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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. (a) Draw the sketch of hammer rock drill operated by compressed air.  
(b) Describe the working of hammer rock drill.
12. (a) Explain the working principle of Rocker Shovel.  
(b) Explain the working principle of Road Header.
13. Describe the SERD shearer.
14. Describe the constructional features of Flame proofing.
15. Draw the comparisons between cage winding and skip winding.
16. Describe working of the keps.
17. Describe working of slow banking arrangements.
18. Explain the care and maintenance of cables.

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