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C09-MNG-606A

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

ADVANCED MINE ENVIRONMENTAL ENGINEERING

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. List the causes of surface fires.
2. List the methods of reopening of sealed of areas in mines.
3. State the functions of water barrier.
4. Write the difference between self rescuer and gas mask.
5. Define the term Rescue.
6. Define the term Inundation.
7. List the birds used for co detection.
8. List the uses of multi gas detector.
9. List different miners diseases.
10. List the limitations of Tele monitoring.

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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.
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11. Explain the method of collection of samples behind fire seals.
 12. Explain coal dust explosions.
 13. Describe the rescue operation in a mine with sketch.
 14. Describe the constructional details of concrete dam.
 15. Explain the method of detection of gasses with infrared spectrometer.
 16. Sketch and explain methane detector.
 17. List the symptoms and effects of chromium poisoning.
 18. Explain principles of Tele monitoring.

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