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C09-MNG -105

**3055**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCTOBER/NOVEMBER-2018  
DMNG- FIRST YEAR EXAMINATION**

**ELEMENTS OF MINING**

*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. Define the terms (a) Mineral deposits (b) Mining engineering.
2. Define the terms (a) Drive (b) Staple pit.
3. List different methods of core recovery
- \* 4. List the applicability of permitted explosives.
5. List different types of exploders and state their applicability.
6. Write the field of application of solid blasting.
7. Define the term “Non cap sensitive explosives”.
8. State the purpose of flame safety lamp.
9. List the poisonous, noxious and inflammable gases.
10. State the purpose of (a) Rider (b) Walling scaffold used in shaft sinking

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**PART-B**

10X5=50

- Instructions* : \*  
1. Answer any **Five** questions.  
2. Each question carries **ten** marks.

11. (a) List the various post mining operations  
(b) List the various pre-mining operations.
12. Classify the method working of coal deposits.
13. Explain Tricone rock roller drilling with sketch.
14. Describe the Hydraulic feed mechanism with sketches.
15. Describe the construction of electric detonator and its field of application.
16. List the high explosives with composition used in Non-coal mines.
17. Write the classification of mine gases.
18. Explain the freezing method of shaft sinking

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