



C16-MNG-403

5696

**BOARD DIPLOMA EXAMINATION, (C-16)
OCTOBER/NOVEMBER-2018
DMNG - FOURTH SEMESTER EXAMINATION**

METHODS OF WORKING COAL - 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 principle of working thick seam
2. State the descending order of extraction.
3. List the disadvantages of horizon mining
4. State the principle of hydraulic breaking of coal.
5. List the demerits of hydraulic mining of coal.
6. List the applicable conditions for underground gasification of coal.
7. List the merits of underground gasification of coal.
8. List the limitations of blasting gallery method.
9. List the merits of blasting gallery method
10. State the precautionary measures to be taken at goaf edge line in blasting gallery method.

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 method of sub-level caving, test applicable conditions of sub-level caving.
12. Explain the method of inclined slicing with stowing.
13. Explain the horizontal slicing with caving.
14. Explain layout of hydraulic mining in moderately thick seams
15. Explain the principle and process of underground gasification of coal
16. Explain linkages between bore holes in underground gasification of coal.
17. Explain development operation in blasting gallery method.
18. Calculate the 0.5 million tones production per annum from blasting gallery panel, assume required relevant conditions.
