



C14-MNG-403

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

MECHANISED METHODS OF COAL MINING

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

1. Define the terms (a) Gate road (b) Main gate.
2. Define the terms (a) Stable (b) Pack wall.
3. Compare Bord and Pillar mining with Long wall mining.
4. Classify the methods of a long wall mining.
5. List the different factors governing the length of Long wall face.
6. List the merits of long wall retreating over long wall advancing.
7. List the cutting methods of the Shearer in long wall mining.
8. State the term salvaging in long wall panels.
9. List the applicable conditions of Blasting Gallery method.
10. List the machinery used in Blasting Gallery panel.

PART-B

10X5=50

Instructions :

1. Answer any **five** questions. Each question carries **ten** marks.
2. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Explain the development of gate roads by Drill and Blast-load by gathering arms loader.
12. Explain the long wall advancing indicating its applicabilities.
13. Explain the layouts of mechanized long wall face advancing with caving.
14. Explain the layout of conventional long wall face retreating with caving.
15. Explain the layout of mechanized long wall face retreating with caving.
16. Explain the methods of sumping in long wall face extraction.
17. Explain Drilling and Blasting Pattern in the Blasting Gallery method.
18. Explain the mechanized layout of Blasting Gallery panel.
