



C09-MNG-304

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

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. List the general considerations for layout of panel.
2. Define the term Bord and Pillar.
3. State the sequence of operations involved in depillaring.
4. Define stowing method.
5. Explain Long wall mining by advancing.
6. List the machinery employed in continuous mining method.
7. Define the term sumping in long wall face extraction.
8. List the cutting methods of the Shearer in longwall mining.
9. State the applicabilities of horizontal slicing.
10. State the applicable conditions of underground gasification of coal.

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 method of development along the dip.
12. List the preparatory arrangements immediately before the commencement of depillaring.
13. (a) List the dangers due to air blast.
(b) List the precautions due to air blast.
14. Explain mechanized the long wall advancing by caving.
15. Explain the long wall method showing (a) Main gate (b) Tail gate (c) stable (d) pack walls.
16. Explain the layout of mechanized long wall face retreating with caving.
17. Explain the method of blasting gallery with applicabilities.
18. Explain over passing, unidirectional ploughing method.
