



C09-MNG-304

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2018
DMNG—THIRD SEMESTER EXAMINATION
COAL MINING**

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions** : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

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1. Define the terms 'board and pillar'.
2. List the factors influencing the number openings to a panel.
3. State the condition under which stowing method is adopted.
4. List the methods of inducing local falls.
5. List the machinery employed on a mechanized longwall face.
6. Define the term 'long wall mining'.
7. List the cutting methods of the shearer in long wall mining.

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8. State the applicability of long wall retreat^{*}ing.
9. State the principles of working thick seams.
10. List the applicable conditions of coal ploughing.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the depillaring stages of board and pillar method.
12. List the preparatory arrangements immediately before the commencement of depillaring.
13. List the dangers and precautions against air blast.
14. State the applicability merits, demerits and limitations of long wall method.
15. Explain the layout of mechanized long wall face advancing with stowing.
16. Explain the layout of mechanized long wall face retreat^{*}ing with caving.
17. Explain the method of inclined slicing with caving.
18. Explain the method of working by plough.

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