



C16-MNG-303

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**BOARD DIPLOMA EXAMINATION, (C-16)**  
**MARCH/APRIL—2018**  
**DMNG—THIRD SEMESTER EXAMINATION**  
**METHODS OF WORKING COAL—I**

*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.

1. State the limitations of bord-and-pillar mining method.
- \* 2. List the factors influencing the size of the panel.
3. Define the terms caving and stowing.
4. List the preparatory arrangements during planning for depillaring operation.
5. Define the term chowkidar pillar.
6. Define the terms (a) gate road and (b) tail gate.
7. Classify the method of longwall mining.
8. Compare single unit and double unit layouts in any three aspects.
9. List the applicabilities of longwall top coal caving.
10. List the demerits of coal plough.

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**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 factors to be considered while opening out a district/panel.
12. Explain the method of development in bord-and-pillar system with side discharge loaders.
13. Explain stowing method.
14. Describe the method of extraction of contiguous seams.
15. State comparison between long wall advancing and long wall retreating.
16. Explain the continuous mining method.
17. Explain mechanised longwall face retreating with stowing.
18. Explain the method of unidirectional cutting method.

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