



C16-MNG-403

5696

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

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 principle of working thick seam.
- * 2. Define slicing and list the methods of slicing.
3. List the merits of sublevel caving.
4. List the applicability conditions for hydraulic mining 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. State the precautionary measures to be taken at goaf edge line in blasting gallery method.
10. State the importance of spacers used in blasting gallery method.

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PART—B

10×5=50

- Instructions** : (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Drawing should be neat with necessary dimensions.

- 11.** Explain the method of horizon mining. State its demerits.
- 12.** Explain the method of inclined slicing with caving by simultaneous extraction.
- 13.** Explain the room and pillar method of working. State its merits.
- 14.** Explain hydraulic breaking of coal.
- 15.** Explain the principle and process of underground gasification of coal.
- 16.** Explain linkages between bore holes in underground gasification of coal.
- 17.** Explain drilling and blasting pattern in blasting gallery method.
- 18.** Explain the mechanized layout of blasting gallery method.
