



C14-MNG-404

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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DMNG—FOURTH SEMESTER EXAMINATION
MINING MACHINERY—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 field uses of drills.
2. State the purpose of air leg.
3. State the field applications of AM-50.
4. State the applications of DERDS.
5. State the purpose of face guard in power supports.
6. Define the terms 'flameproof apparatus' and 'intrinsically safe apparatus'.
7. State the purpose of head gear.
8. State the applicability of rigid guides.

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9. List the safety devices used in winding system.

10. Define the terms 'bedding' and 'armouring'.

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 classification of the coal cutting machines.

12. Explain the principles of working of rocker shovel.

13. Explain the principles of working of armoured face conveyers.

14. List the factors governing the selection of power supports.

15. Describe the electrical signalling system used in underground haulage roadway with a neat sketch.

16. Explain the principles of koepe/friction winding.

17. Describe the suspended caliper brake.

18. Explain the care and maintenance of cables.
