



C14-MNG-404

4468

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DMNG - IV 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) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 State the field use of electric rotary drill.
- 2 Name the parts of Hammer rock drill.
- 3 State the field of applications of power loader.
- 4 State the applicable conditions of SERDS.
- 5 State the purpose of the lemniscate links in power supports.
- 6 State the applicabilities of intrinsically safety apparatus used in mines.
- 7 State the purpose of head gear.
- 8 List the shaft fittings.
- 9 List the demerits of friction winding.
- 10 Draw the cross sectional diagram of 3 core cable and name its parts.

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[Contd...

PART - B

10×5=50

- Instructions :**
- (1) Answer any **FIVE** questions.
 - (2) Each question carries **TEN** marks.
 - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11 Describe the working of electrical rotary drill with neat sketch.
 - 12 Explain the principle of working "Side Discharge Loader" (SDL).
 - 13 Describe the principle of working of DERDS.
 - 14 (a) State the principle of lump breaker.
(b) State the purpose of power pack.
 - 15 Describe the gate-end switch gear used for coal drill.
 - 16 Describe working of the Keps.
 - 17 Explain the loading and unloading run-round arrangement of pit top layout used in winding.
 - 18 Explain the care and maintenance of cables used in mines.
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