



C14-MNG-605

4766

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DMNG—SIXTH SEMESTER EXAMINATION
MINE SAFETY ENGINEERING

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. Define the terms (a) safety and (b) safety campaign. 1½+1½
2. State the standards of lighting in open-cast workings.
3. Define the term (a) injury and (b) accidents rate. 1½+1½
4. List the preventions of accidents due to haulage.
5. List the causes of accidents to fitters.
6. State the duties of training officer.
7. Define the terms (a) rescue and (b) recovery. 1½+1½
8. State the purpose of resuscitation apparatus.
9. List various miner's diseases.
10. State the precautions against siderosis.

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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 role of CMRS in safety promotion.
- 12.** Describe the pit safety committee.
- 13.** List the causes and remedial measures of accidents due to winding.
- 14.** List the causes and prevention of accidents due to inundation in mines by surface water.
- 15.** Explain the necessity and significance of vocational training and list various VT centers.
- 16.** Describe the constructional details of smoke helmet.
- 17.** Explain about various forms of pollution due to mining.
- 18.** State the causes, symptoms and treatment of Nystagmus.
