



C16-MNG-405

5698

BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2018
DMNG—FOURTH SEMESTER EXAMINATION
MINE 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. Name the parts of the electric rotary drill.
2. State the purposes of air-leg.
3. State the types of power loaders used underground with their applicabilities.
4. List the constituent parts of armoured face conveyor.
5. List the types of hydraulic control system used in power supports.
6. State the field of use of FLP and intrinsically safe apparatus.
7. State the purpose of a head gear.
8. List the types of safety hooks.

/5698

*

1

[*Contd...*

9. List the safety equipment used in drum winding.
10. Write different types of cables used in mines.

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.
(4) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Describe the working of hammer rock drill.
12. Explain the principles of working of AM-50 road header.
13. Explain the principle of lump breaker.
14. Describe electrical signalling system used in underground haulage roadway with a neat sketch.
15. Explain the suspension and weighting of flexible guides.
16. Describe the working of safety catches.
17. Write the comparison between drum winding and friction winding.
18. Explain the layout of distribution of power supply from gate end panel to the drilling equipment.
