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Roll No

MI-7003-CBGS

B.E. VII Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Mine Environmental Engineering

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain the different features of rescue station, rescue room and first aid station.
2.
 - a) Explain the procedure of reopening a sealed off area.
 - b) Explain the techniques of indirect fire-fighting of fires in the mines.
3.
 - a) Explain the phenomenon of coal dust explosions in underground mines.
 - b) Explain any one method of prevention of coal dust explosion.
4.
 - a) Explain the construction and working of self-rescuer. Draw neat labelled figure.
 - b) Explain the constructional features and working of a self contained closed circuit type breathing apparatus.

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5. How spontaneous heating is controlled in stacks and dumps?
6. How fire is controlled in mines? and write a brief note on fire extinguishers of mines.
7. Explain concepts of emergency organisation in mines.
8.
 - a) Explain the various steps to be taken to recover water inundation area in underground coal mines and steps to dewatering to that area.
 - b) Explain the Burnside safety/drilling apparatus with neat sketch. Also explain the use.
