WGALO



18MN62

Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 Mine Environmental Engineering

Max. Marks: 100 Time: 3 hrs.

	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Madula 1	
		Module-1	(10 M1)
1	a.	Explain the cases and prevention of mine fire.	(10 Marks)
	b.	Explain the factors governing spontaneous heating.	(10 Marks)
		OR	
2	a.	Explain the procedure involved in re-opening of sealed off areas.	(10 Marks)
2	b.	Explain the prevention of spontaneous heating.	(10 Marks)
	υ.	Explain the prevention of spontaneous neuring.	
		Module-2	
3	a.	Explain the causes and prevention of firedam of explosion.	(10 Marks)
	b.	Explain the causes and prevention of coal dust explosion.	(10 Marks)
		OR	(10 Mayles)
4	a.	Explain the characteristics of coal dust explosion.	(10 Marks)
	b.	Explain the polish type of stone dust barriers considering technical aspects in	(10 Marks)
		Module-3	
5	a.	Explain the causes and prevention of mine inundation.	(10 Marks)
	b.	Explain the procedure adopted in approaching old water logged area.	(10 Marks)
		OR	tion
6	a.	Explain the different types of water dams and their technical aspects in construc	(10 Marks)
	b.	Describe with a neat sketch of safety boring tube.	(10 Marks)
	U.	Describe with a heat sketch of safety coming the co	
		Module-4	
7	a.	Explain the need of rescue station with technical considerations.	(10 Marks)
	b.	Explain the process of resuscitation.	(10 Marks)
		OR	(10 Mayla)
8	a.	Explain the duties and responsibility of team leader for a reuses operation.	(10 Marks) (10 Marks)
	b.	Explain the need of fresh air bags with references to technical consideration.	(10 mains)
		Module-5	
		E 1 ' 11	(10 Marks)

9	a.	Explain the generation at airborne dust in underground coal mines.	(10 Marks)
			(10 Mayles)
	h.	Explain the measurement at airborne test by OSHA.	(10 Marks)

OR

- Describe the standards of mine lighting in underground coal mines with reference to (10 Marks) technical considerations. (10 Marks)
 - Describe the method of conducting illumination survey.

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