	.e.
Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.	2. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$, will be treated as malpractic

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(10 Marks)

Sixth Semester B.E. Degree Examination, July/August 2022 **Mine Environmental Engineering**

Time: 3 hrs. Max. Marks: 100

	Note: Answer any FIVE full questions, choosing ONE full question from each module.				
1	2	Module-1 Explain the various causes and classification of fires.	(10 Marks)		
1	a. b.	Explain the warlous causes and classification of files. Explain the method of Re-opening sealed off areas due to underground mine activities.			
	0.	Explain the method of ite opening seared on areas due to analyze and inner	(10 Marks)		
		OR			
2	a.	Explain the mechanism and various stages of spontaneous heating in an undergr			
	1		(10 Marks)		
	b.	Explain the various factors affecting spontaneous heating of coal in a mine.	(10 Marks)		
		Module-2			
3	a.	Explain the various causes and prevention of fire damp explosions in a mine.	(10 Marks)		
	b.	With a neat sketch, explain the principle of water barrier used in underground coa			
		OR	(10 Marks)		
4	a.	Explain the various causes and preventive measures of coal dust explos	sion in an		
7	u.	underground coal mine.	(10 Marks)		
	b.	Explain the principle, construction and types of stone dust barriers used in an u	2 (2)		
		mine.	(10 Marks)		
		Module-3			
5	a.	Explain the various causes and prevention of inundation in underground mine.	(10 Marks)		
	b.	With a neat sketch, explain safety boring apparatus.	(10 Marks)		
		OR			
6	a.	Explain the various precautions and techniques to be taken while approaching old	d workings.		
			(10 Marks)		
	b.	Explain the process of Dewatering of water logged working.	(10 Marks)		
Module-4					
7	a.	Explain the various kinds of Rescue equipment and their uses.	(10 Marks)		
	b.	Explain in detail an organization of Rescue work.	(10 Marks)		
OR					
8	a.	Explain the importance of Rescue station and Rescue rooms in mines.	(10 Marks)		
U	b.	Explain the various classification of Rescue Apparatus.	(10 Marks)		
0	C	Module-5 Explain the various measurements and control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of Air-borne respirable decorations are supported by the control methods of the control methods of the control methods are supported by the control methods are supported by the control methods of the control methods are supported by the control methods are s	ust		
9	a.	Explain the various measurements and control methods of An-bothe respirable di	(10 Marks)		
	b.	With a neat sketch, explain the layout and organization of lamp rooms.	(10 Marks)		
	OR				
10	a.	Explain the physiological effects of dust and dust related diseases.	(10 Marks)		
	1	The state of the s	(10 M/)		

Explain the technical terms in lighting and photometry in illumination survey.