## Eighth Semester B.E. Degree Examination, June/July 2023 **Coal Bed Methane**

Time: 3 hrs.

Max. Marks: 100

		Module-1	
1	a.	Differentiate between CBM and Conventional resources.	(08 Marks
1	b.	Explain the role of Geological influences on coat formation of coals.	(12 Marks
		OR	
2	a.	Explain the significance of ranking in coal formation.	(10 Marks
	b.	Explain the principles of adsorption and explain how CH <sub>4</sub> content determination	(10 Marks
		seams.	(10 Marks
		Modulo 2	
		Module-2  Differentiate hetween Permanhility and Peranity	(10 Mark
3	a.	Differentiate between Permeability and Porosity.	(10 Mark
	b.	Explain the concept of Open hole completions.	
		OR	
4	a.	Explain the concept of closed hole completions.	(10 Mark
	b.	Explain the concept of Multi zone entry in closed hole.	(10 Mark
		Module-3	
5	a.	Brief the nomenclature of Borchole environment.	(08 Mark
	b.	Explain the importance of recovery factor.	(12 Mark
		O.D.	
		OR  Contact the application of CPM wells	(10 Mark
6	a.	Explain the concept of coal wire line log evaluation of CBM wells.	(10 Mark
	b.	Explain the concept of Cleating.	
		Module-4	
7	a.	Explain the need of fracturing coal for extraction of CBM.	(12 Marl
/	b.	Brief the unique problems in fracturing coals.	(08 Marl
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		OR	
8	a.	Explain the types of fracturing fluids for coal.	(10 Marl
	b.	Explain the insitu factors to be considered for CBM extraction.	(10 Mar)
		26.11.5	
		Module-5	(10 Mar)
9	a.	Explain the environmental impacts of Methane wells.  Explain the importance of water disposal technique to be followed while extractions are also as a second of the contraction of the	
	b.	Explain the importance of water disposar technique to be followed write exists	(10 Mar
			,
		OR	
		Explain the concept of economics of coal bed methane recovery.	(10 Mar
10	) a.	Explain the concept of economics of coal sea memans 1000 100	(10 Mar