

## CBCS SCHEME

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17MN73

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Mineral Processing and Fuel Technology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
1	a.	Discuss in detail about Peat.	(10 Marks)
	b.	Discus in detail about ultimate Analysis.	(10 Marks)
		OR	
2	a.	Discuss in detail about liquid fuels.	(10 Marks)
	b.	Discuss in detail about high temperature Carbonization.	(10 Marks)
		Madula 2	
3	0	Module-2 Explain the objectives of mineral processing.	(10 Marks)
3	a. b.	Explain the different methods of sampling materials in a laboratory.	(10 Marks)
	0.	Explain the different methods of sampling materials in a meetasty.	(======,
		OR	
4	a.	Explain about the different theories of comminution.	(10 Marks)
	b.	Explain the different stages of comminution.	(10 Marks)
_		Module-3	(10 Marks)
5	a. b.	Discuss about the working principle of gyratory crushing.  Discuss about the working principle of Ball mill.	(10 Marks)
	υ.	Discuss about the working principle of Ban min.	(IVIVIAINS)
		OR	
6	a.	Discuss about the working principle of vibrating screen with neat sketches.	(10 Marks)
	b.	Discuss about the working principle of hyderocyclone with neat sketches.	(10 Marks)
_		Module-4  Stinging with rest shetch	(10 Marks)
7	a.	Explain the working principle of Jigging with neat sketch.  Explain about the concept of flowing film concentration.	(10 Marks) (10 Marks)
	b.	Explain about the concept of flowing firm concentration.	(10 1/14/185)
		OR	
8	a.	List out the physio-chemical principles of flotation and explain them in detail.	(10 Marks)
	b.	Explain about high tension electrostatic separator with neat sketch.	(10 Marks)
		Module-5	(10 Mawka)
9	a.	Discuss about the concept of thickening with neat sketch.	(10 Marks) (10 Marks)
	b.	Discuss about the concept of filtration with neat sketch.	(10 Marks)
		OR	
10	) a.	Draw the flowsheet of lead and explain them.	(10 Marks)
	b.	Discuss about the concept of washing of coal with its advantages.	(10 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.