CBCS SCHEME

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							1510	151/11/102		

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Mineral Processing and Fuel Technology

Time: 3 hrs. Max. Marks: 80

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

		Module-1	
1	a.	Briefly explain about the characteristics of Indian coal.	(08 Marks)
	b.	With neat sketch, explain the manufacture, reactions and uses of water gas.	(08 Marks)
		and the second s	(oo marks)
		OR	
2	a.	Explain in detail about the combustion stoichiometry.	(08 Marks)
	b.	Explain low and high temperature carbonization.	(08 Marks)
			(00 Marks)
		Module-2	
3	a.	Explain the objectives and scopes of mineral processing.	(08 Marks)
	b.	Explain Comminution and its stages.	(08 Marks)
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		OR	
4	a.	With sketches, explain the principles of Comminution.	(10 Marks)
	b.	With equations, explain the theories of Comminution.	(06 Marks)
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		Module-3	
5	a.	With neat sketch, explain the working principle of Blake Jaw Crusher.	(08 Marks)
	b.	With neat sketch, explain the working principle of Tumbling mill.	(08 Marks)
		OR	
6	a.	With neat sketch, explain the working of Trommel (or) Revolving screen.	(08 Marks)
	b.	With a neat sketch, explain the working of Cyclone separator (or) hydrocyclone.	(08 Marks)
-		Module-4	
7	a.	With a neat sketch, explain the working principle of Jigging.	(08 Marks)
	b.	With a neat sketch, explain the working of shaking table.	(08 Marks)
0		OR OR	
8	a.	Classify flotation reagents. Explain them in detail.	(08 Marks)
	b.	With a neat sketch, explain the low intensity wet magnetic separator.	(08 Marks)
0	_	Module-5	
9	a.	With graphs, explain the construction of washability curve.	(08 Marks)
	b.	With a neat sketch, explain the working of thickner.	(08 Marks)
		4) OP	
10	0	OR With a next sketch, compain the working of during	(00.7.7
10	a.	With a neat sketch, explain the working of drying.	(08 Marks)
	b.	Draw the general beneficiation flow chart of lime stone and explain the same.	(08 Marks)

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