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

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

PART - A			
1	0	Explain the Dustrootment of any	
1	a.	Explain the Pretreatment of ores.	(10 Marks)
	b.	Explain the sorting process by manual, mechanical sorting on pretreatment of ore	
			(10 Marks)
2		Define and I'm the triangle of triangle of the triangle of triangl	
2	a.	Define sampling and explain on different sampling methods.	(10 Marks)
	b.	With a neat sketch, explain the mechanical sampler.	(10 Marks)
3	a.	Write notes on principles of communition.	(10 Marks)
	b.	Explain on different stages of communition.	(10 Marks)
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4	a.	Explain with flow diagram the primary crushing and secondary crushing.	(10 Marks)
	b.	Write notes on closed circuit and open circuit grinding of ore.	(10 Marks)
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PART - B			
5	a.	Write notes on sizing and laboratory sizing.	(10 M 1)
J	b.	Write notes on laminar flow and turbulent flow.	(10 Marks)
	0.	write notes on laminar now and turbulent now.	(10 Marks)
6	a.	Write notes on principles of flow film concentration.	(10 M - 1-)
U	b.	Write a detailed note on high tension separation.	(10 Marks)
	0.	write a detailed note on high tension separation.	(10 Marks)
7	a.	Explain on physio-chemical principles of flotation separation.	(10 Marks)
•	b.	Explain with a neat sketch, the working of flotation machine.	(10 Marks)
	0.	2. April 11 Will a float sketch, the working of notation machine.	(10 Marks)
8	a.	Write notes on thickening and drying techniques with sketches.	(12 Mayles)
J	b.	Draw the flow sheet diagram for copper extraction.	(12 Marks)
	U.	Draw the now sheet diagram for copper extraction.	(08 Marks)

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