

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Mineral Processing**

Time: 3 hrs.

Max. Marks:100

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

		PART – A	
1	a.	Define Mineral Processing. Write the objectives and scope of Mineral Processing.	(10 M - 1 -)
•	b.	Explain Radiometric Sorting.	(10 Marks) (10 Marks)
		7 2011.13.	(10 Marks)
2	a.	Define Sampling and write the objectives of sampling.	(06 Marks)
	b.	Explain different types of manual sampling.	(06 Marks)
	C.	Explain Mechanical sorting.	(08 Marks)
3	a.	Explain stages of communication.	(10 Marks)
	b.	Explain Liberation and its concepts.	(10 Marks)
4	a.	What is the principles of crushing and write the difference between primary and	aaaan danss
7	a.	crushing.	(06 Marks)
	b.	Explain Cone crusher.	(08 Marks)
	c.	Explain Grinding by Ball Mill.	(06 Marks)
			(0001111111)
		PART – B	
5	a.	What are different types of Industrial screens? Explain any one.	(06 Marks)
	b.	Explain Free settling and Hindered settling.	(14 Marks)
6	a.	What is the principles of Gravity concentration and symbols in incine	(10 % // 1)
U	a. b.	What is the principles of Gravity concentration and explain jigging. Explain High Intensity Magnetic separator.	(10 Marks)
	υ.	Explain Figh Intensity Wagnetic Separator.	(10 Marks)
7	a.	Write the Physico – Chemical principle of flotation.	(10 Marks)
	b.		(10 Marks)
	A		()
8	a.	Explain the principle and techniques in dewatering.	(12 Marks)
	b.	Draw the flowchart for processing of copper ore and explain it.	(08 Marks)
