Librarian Learning Resource Centre		
Learning Resource Acharya Institute & Technology		

18MN36

Third Semester B.E. Degree Examination, July/August 2021 Mineralogy, Petrology and Stratigraphy

Time: 3 hrs. Note: Answer any FIVE full questions.

Max. Marks: 100

(10 Marks)

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1	a. b.	Discuss the scope of Geology in the field of Mining Engineering. Explain the Internal Structure and composition of earth, with neat sketch.	(08 Marks) (12 Marks)
2	a.	What are glaciers? Explain the geological work of glaciers.	(10 Marks)
	b.	Explain Seismic hazards. Describe engineering protection against earth quakes.	(10 Marks)
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}		Define Mineral. Explain the physical properties chemical composition as	nd uses of
		quartz group of minerals.	(20 Marks)
4		Write physical properties, chemical composition and uses of following ore miner	als
		i) Magnetite ii) Chalcopyrite iii) Chromite iv) Galena	(20 Marks)
5		What are Ignoons rooks? How one they formed? Fighting the short Common of the short Co	1
3		What are Igneous rocks? How are they formed? Explain the classification of ign	(20 Marks)
		Describe the texture, structure, mineralogical composition and their engineering to Corporate (ii) Physician (iii) Polymetric	
		i) Granite ii) Rhyolite iii) Dolerite iv) Pegmatite	(20 Marks)
7	a.	Briefly explain the classification of sedimentary rock based on grain size.	(08 Marks)
	b.	Explain the physical properties of following rocks i) Sandstone ii) Shale iii) Limestone	(12 M1)
		i) Salidstolle iii) Shale iii) Elillestolle	(12 Marks)
8	a.	Define Metamorphism. Explain the factors effecting metamorphism.	(08 Marks)
	b.	Explain: i) Gneiss ii) Schist iii) Marble.	(12 Marks)
9	a.	Define Stratigraphy. Explain the principles of stratigraphy.	(10 Marks)
	b.	Define Palaeontology. Explain the different kinds of fosils and uses.	(10 Marks)
10	a.	Define Correlation. Explain the factors affecting correlation	(10 Massless)
IU	a.	Define Correlation. Explain the factors affecting correlation	(10 Marks)

b. Define Index fossil. Explain the conditions to form fossil assemblages.

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