



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: GL 374

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COURSE NAME: EXPLORATION GEOCHEMISTRY

CLASS: GL III

TIME: 3 Hours

Name: _____ Index Number: _____

Answer any three questions (20 marks each)

- 1) “Concentrations of the elements in soils which were formed from volcanic rocks are controlled by the presence of secondary minerals in the rocks, element mobility and leaching processes”. Discuss.

- 2) Why did Bowen (1922) doubt the presence of foreign matter as very essential to the production of any particular mineral in igneous rocks?

- 3) With examples, show why felsic volcanic rocks are less weathered than basalts. Also show lateral migration of any elements in soils.

- 4) Why do geologists believe that gold content in stream sediments is lower because of clearing and cultivation?

- 5) Indicate any two facilities and set of geochemical results which could be used to distinguish between quartz-carbonate altered zones from their host rock which is a typical Birimian metavolcanic rock.

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