



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

SECOND SEMESTER EXAMINATIONS, MAY 2018

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COURSE NO: GL 272

COURSE NAME: IGNEOUS AND METAMORPHIC PETROLOGY

CLASS: GL II

TIME: 3 Hours

Name: _____ Index Number: _____

Answer any three questions

- 1) Explain why assimilation, and metamorphism were synchronous with emplacement of mica granite. (20 marks)
- 2) How would you use the Bowen's Reaction Series to explain the mode of emplacement of a suite of volcanic rocks? (20 marks)
- 3) Illustrate two types of foliations and two associated textures for each one of them. (20 marks)
4. Briefly explain the following:
 - a) How to use a given modal percentage to name a plutonic rock? (6 marks)
 - b) Why is chondrite a tool of research? (7 marks)
 - c) Why are porphyroblasts and pebbles found in a rock which also shows gneissosity? (7 marks)

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