



FACULTY OF SCIENCE

FAKULTEIT NATUURWETENSKAPPE

	DEPARTMENT OF GEOLOGY
MODULE	GLG2A02 METAMORPHIC ROCKS
CAMPUS	APK
EXAM	JULY EXAM 2016

DATE: 28 JULY 2016

SESSION: 15:00

ASSESSOR(S)

INTERNAL MODERATOR

PROF. H. MOURI

EXTERNAL MODERATOR

PROF. M. ELBURG

DURATION 3 HOURS

MARKS 100

NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS: ONLY ANSWER ON THE QUESTION PAPER WHEN REQUESTED.

Question 1 (25%)

1) Explain and discuss the difference between the following types of metamorphism:

Contact Metamorphism
Shock Metamorphism
Burial Metamorphism
Barovian Metamorphism

2) Provide examples from South Africa when possible.

3) Explain what controls the size and the shape of a contact metamorphic aureole.

Question 2 (25%):

What are the different types of metamorphic reactions we studied in class, discuss each of them and illustrate with an example for each of them.

Question 3 (25%)

Give the definitions of the following:

- 1) Geothermal Gradient
- 2) Porphyroblast
- 3) Crenulation cleavage
- 4) Serpentine
- 5) Confining Pressure

Question 4 (25%)

What are the parameters that control metamorphism, discuss each of them and illustrate with examples (and sketches when possible).