

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF GEOLOGY

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BTech GEOLOGY 2015/2016 SESSION
COURSE: GEL415 (REGIONAL STRUCTURAL GEOLOGY AND GLOBAL TECTONICS) UNIT: 3
DATE: 12th April, 2016. TIME: 2HRS. 30 MIN.

INSTRUCTIONS: ANSWER THREE QUESTIONS FROM SECTION A AND ONE QUESTION FROM SECTION B

SECTION A

1a. What are Geosynclines?

Describe how geosynclinal processes lead to the formation of folded mountains

b. Distinguish between orthogeosynclines and parageosyncline

2 a. Discuss the theory of global tectonics

b. Explain the economic importance of global tectonics to man.

3a. Discuss the impact of the two converging tectonic plates on the crust of the earth.

b. What is mobile belt?

c. Explain the importance in global tectonics?

4a. What are earthquakes?

b. What advice would you give to people around you in the course of earthquakes occurring?

SECTION B

1a. Outline the theories of continental drift as proposed by Alfred Wegner and explain three of the theories.

b. Explain the importance of Appalachian and Caledonide Mountain to the theory of continental drift.

2a. Discuss the problems of ice distribution in the theory of continental drift.

b. Outline the stages of how continent moved over the 200 million years.