

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

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BTech GEOLOGY
2017/2018 SESSION

COURSE CODE: GEL 211

UNIT: 3

COURSE TITLE: PHYSICAL GEOLOGY

INSTRUCTIONS: ANSWER ANY THREE QUESTIONS

TIME ALLOWED: 1 HOURS 30 MIN.

DATE: 24 APRIL 2018

1. (a) (i) Define Earthquakes?
(ii) What secondary effects commonly accompany earthquakes?
(iii) Name the seismic waves.
(b) (i) Define fluvial geomorphology.
(ii) Describe the interaction of the atmosphere with the other earth's system.
2. (a) On a world map, show the worldwide belt of active volcanoes and major earthquake zones.
(b) Discuss the factors involved in soil formation.
3. (a) Define the following:
 - i. Groundwater
 - ii. Porosity
 - iii. Permeability
 - iv. Water table(b) Write short notes on the following:
 - i. Meteorite
 - ii. Lithospheric plate
 - iii. Greenhouse effect
 - iv. Physical weathering
 - v. Chemical weathering
4. (a) Define hydrological cycle and briefly discuss its components.
(b) Explain the term soil profile using an illustrated diagram.
5. (a) Summarise the relationship between the earthquakes and plate tectonics.
(b) With the aid of a diagram, explain the Rock Cycle.