

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: GEL 315 (STRATIGRAPHY)

UNIT: 2

DATE: 15<sup>th</sup> April, 2016.

TIME ALLOWED : 2 HOURS

**INSTRUCTIONS:** ANSWER ANY THREE QUESTIONS.

1

- (a) Discuss the phases involved in the stratigraphic study of a region
- (b) Define a conformity
- (c) Write on lateral lithostratigraphic contacts

2

- (a) What are the purposes for subdividing a stratigraphic column into distinctive stratigraphic units?
- (b) Explain the concept of a geologic formation, and relate it to geologic members and group using Nigerian examples
- (c) Define a type section and list any two criteria for the choice of a type section

3

- (a) Distinguish between a diastem and an unconformity
- (b) Give a detailed discussion of unconformable contacts
- (c) Enumerate the significance of unconformities to sedimentologists

4

- (a) Explain in detail the concept of Geologic Time.
- (b) Briefly explain the three basic types of biostratigraphic units.

5 Discuss the concept of magnetostratigraphy and its applications.