

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF GEOLOGY
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BTech GEOLOGY,
2016/2017 SESSION

COURSE TITLE: (GEL223) SYSTEMATIC PALEONTOLOGY

UNIT: 3

DATE: 26th October, 2017

TIME ALLOWED: 2 HRS 30 MINUTES

INSTRUCTIONS: Answer four questions in all, at least one question from each section.

SECTION A

- 1a). State 3 differences between Archaeogastropods and Caenogastropods
- b). Discuss the mode of life of Gastropods
- c). Discuss the applications of gastropods in zonation, paleoenvironmental and paleoclimatic reconstruction
- 2a). State the differences between the classes Nautilodea and Ammonoidea
- b). What does heteromorphs in ammonoids mean? With the aid of well labelled diagrams, give 2 specie/genus examples of the above with their ages.

SECTION B

- 1 Discuss the general characteristics of the phylum Echinodermata.
- 2a). Write short note on the subclass Zoantharian using diagrams.
- b). Briefly comment on the characteristics and ecology of the order Tabulate corals

SECTION C

- 1a). With the aid of a well labelled diagrams describe the internal morphological features of brachiopods
- b). Enumerates the stratigraphic values of the trilobites
- 2a). With the aid of a well labelled diagram describe the form of trilobites cephalon
- b). Compare and contrast the two main classes of the Phylum Brachiopoda