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FACULTY OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF PHYSICAL AND CHEMICAL SCIENCES
SECOND SEMESTER BSC EXAMINATIONS 2016/2017 ACADEMIC SESSION

COURSE CODE: AGY 204

CREDITS: 3

COURSE TITLE: SYSTEMATIC PALEONTOLOGY

TIME ALLOWED: 2½HRS

INSTRUCTION; Answer all questions in part A in the spaces provided on question paper. In part B, answer any two questions.

PART A

1. Paleontology can be defined as

2. Two important components of hard parts of animal fossils are aragonite and calcite. State the difference between them.

3. List three subdivisions of Mesozoic Era

4. Benthonic organisms are.....
..... e.g.....

5. Fossils are commonly found in some rocks but not found or common in some. Give an example of rock that lack fossil and why?

6. When oxygen content of an environment is less than 0.1 ml/l, it is said to be oxic. True or False?

7. Enumerate the characteristics the Class Cephalopoda

8. Distinguish between the classes Articulata and Inarticulata

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9. Describe Mould and Cast as modes of fossil preservation

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10. Mention one example of a Mollusc with a univalved shell

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PART B

- 1a) With good illustration and examples discuss the importance and applications of fossils in geological studies.
- b) Describe the essential features of the shell of a Gastropod
- c) Enumerate the general characteristics of Brachiopods

- 2a) Present the general characteristics of the Hydrozoa
- b) With good diagram describe the morphology of the medusa form of Cnidaria (Coelenterate)
- c) What are the elements that constitute barrier for organism dispersal?

- 3a) Describe the various suture in Cephalopods and comment on their biostratigraphic significance.
- b) Provide short note on factors that influence preservation of fossil .

- 4a) What is biostratigraphy? Describe any two biostratigraphic units
- b) Describe types of corals and provide short note on Coral ecology.
- c) Explain the term Euryhaline