

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN FISHERIES AND OCEANOGRAPHY

BSFO 16S/YEAR 2/ SEMESTER 1 AAB 4251: ANIMAL TAXONOMY

SPECIAL/ SUPPLIMENTARY EXAMINATIONS SERIES: SEPTEMBER 2018 TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE. (30 MARKS)

a) Describe the following terms

| i. | Paralellism | (2marks) |
|--|--|-----------|
| ii. | Bipinnaria | (2marks) |
| b) Dif | ferentiate between epicuticle and procuticle | (4marks) |
| c) Which are the FOUR distinct sense organs in annelids? | | (4marks) |
| d) Describe the nervous system of echinoderms | | (5 marks) |
| e) Nai | me FOUR features used in the classification of an animal | (4marks) |
| f) Outline FOUR classes of phylum Echinodermata | | (4marks) |
| g) Bri | efly describe the nervous system of arthropods | (5marks) |

QUESTION TWO. (20 MARKS)

Arthropods are more widely distributed over the earth than any other animal phylum thus they live in virtually every habitat on earth.

a. Which are the distinctive characteristics of arthropods? (10marks)

b. Describe the process of molting in arthropods. (10marks)

QUESTION THREE. (20 MARKS)

There are 6 kingdoms that are currently identified. Discuss the features that make kingdom Animalia distinct from the other kingdoms. (20marks)

QUESTION FOUR. (20 MARKS)

Sense organs in crustaceans are well developed. Discuss. (20marks)

QUESTION FIVE. (20 MARKS)

Mollusks have the most versatile body plan of all animals. Discuss. (20marks)