



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

SEPTEMBER –DECEMBER 2021

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 201: INVERTEBRATE ZOOLOGY

Date: DECEMBER 2021

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any TWO Questions

- Q1. a) Define the following terms **(5Marks)**
- a) Mixotrophs
 - b) Asymmetry
 - c) Gastrulation
 - d) Prokaryotes
 - e) Triploblastic
- b) Use the origin of protozoans to describe endosymbiotic theory **(5Marks)**
- c) i) Explain advantages of coelom in the invertebrates **(2Marks)**
ii) Highlight the economic importance of mollusks **(3Marks)**
- d) i) Explain why sponges are called loosely organized animals **(2Marks)**
ii) Explain why *D. melanogaster* is preferred in genetics studies **(3Marks)**
- e) Identify the common characteristics used to categorize animals **(5Marks)**
- f) Give the distinguishing traits of Platyhelminthes from cnidarians **(5Marks)**

Q2. "Modern people gladly imagine a life without arthropods" Discuss what would happen if all arthropods disappear. **(20Marks)**

Q3. Describe the significance of invertebrates to humans **(20Marks)**

Q4. What makes arthropods the most successful of all invertebrates **(20Marks)**

- Q5. a) Describe the lifecycle of plasmodium
b) Describe the general characteristics of phylum annelida

(10Marks)
(10Marks)

DTE DEC 2021

END