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University Examinations 2012/2013

SECOND YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURE

BIO 0211: MICROBIOLOGY AND ZOOLOGY

DATE: APRIL 2013

TIME: 1 ½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Name three basic chordate characteristics. (3 Marks)
- b) Define a plasmid. (3 Marks)
- c) List down three differences between medusoid and polyploid cnidarians. (3 Marks)
- d) Differentiate between radial and bilateral symmetry. (3 Marks)
- e) Protozoa are classified according to locomotive organs. Explain giving examples. (4 Marks)
- f) Discuss four economic importances of earthworms. (4 Marks)
- g) Discuss the difficulties encountered by amphibians as they try to conquer the terrestrial environment. (4 Marks)
- h) Give three characteristics of viruses. (3 Marks)
- i) What are bacterial phages? (3 Marks)

QUESTION TWO (15 MARKS)

- a) List and describe five characteristics of living organisms. (10 Marks)
- b) Describe the various adaptations seen in Tapeworms. (5 Marks)

QUESTION THREE (15 MARKS)

- a) Explain in details why arthropods are very successful. (10 Marks)
- b) Discuss the economic importance of pisces. (5 Marks)

QUESTION FOUR (15 MARKS)

- a) Describe the various factors that affect microbial growth. (10 Marks)
- b) List down the economic importance of the class insecta. (5 Marks)

QUESTION FIVE (15 MARKS)

Discuss the economic importance of micro-organisms. (15 Marks)