



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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UNIVERSITY EXAMINATIONS 2023/2024

THIRD YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN MEDICAL MICROBIOLOGY

HMM 3324: MEDICAL ENTOMOLOGY

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer Question One and any other Two

QUESTION ONE (30 MARKS)

- a) Define the terms exophilic, viviparous, arthropophilic & nits (6 Marks)
- b) Name at least one genus of fleas, louse, mites and flies (4 Marks)
- c) Briefly describe the head lice (6 Marks)
- d) Describe the external morphology of insects (4 Marks)
- e) Briefly state the general characteristics of the class arachnida. (5 Marks)
- f) Explain how elimination of fleas can be achieved. (5 Marks)

QUESTION TWO (20 MARKS)

- a) Give a detailed explanation of the life cycle and medical importance of Lice. (10 Marks)
- b) Compare and contrast the class chilopoda to the class crustacea. (10 Marks)

QUESTION THREE (20 MARKS)

- a) Explain in detail the development cycle and ecology of the mosquito (10 Marks)



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

- b) Explain how metamorphosis differs from insect to insect. (10 Marks)

QUESTION FOUR (20 MARKS)

- a) Give a detailed explanation of the developmental cycle and medical importance of the tsetse fly. (10 Marks)
- b) Explain the negative effects of arthropods on human health (10 Marks)

