

DATE: 27th SEPTEMBER 2022

TIME: 1.30 PM – 3.30 PM

Part B: Structured Essay Questions (60 Marks)

Q1.

1.1 List four (04) identification features of adult male and female *Anopheles* mosquitoes. (4 marks)

1.2 Briefly explain factors affecting malaria transmission. (4 marks)

1.3 Briefly explain the life cycle of malaria parasites. (6 marks)

1.4 Describe the clinical features of complicated malaria. (6 marks)

(Total: 20 Marks)

Q2. African sleeping sickness is a serious public health problem in rural Africa.

2.1 Name the parasite and vector involved in sleeping sickness. (2 marks)

2.2 Briefly explain the external morphological features of the vector mentioned in 2.1. (4 marks)

2.3 Explain the life cycle of the vector mentioned in 2.1. (8 marks)

2.4 Discuss the factors contribute to the transmission of sleeping sickness. (6 marks)

(Total: 20 Marks)

Q3. A sample of insect species collected from different locations and they were, *Cimex*, *Black fly*, *Musca domestica* and *Culex quinquefasciatus*.

3.1 State separately, the external morphological features you will use to identify each of the above four (04) species. (4 marks)

3.2 Outline the generalized life cycle of *Culex quinquefasciatus*. (4 marks)

3.3 Describe the vector bionomics and vector pathogen disease transmission cycle of *Culex quinquefasciatus*. (12 marks)

(Total: 20 Marks)

Part C: Essay Question (20 Marks)

01. Explain the factors affecting transmission of dengue fever. (20 Marks)

