**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF FIRST SEMESTER EXAMINATION**

**SEPTEMBER 2013 KRCHN CLASS (PRE-SERVICE)**

**MICROBIOLOGY EXAMINATION**

**DATE**: 6 MARCH 2014 **TIME**: 2.00 – 5.00 PM

**INSTRUCTIONS**

1. Enter your examination number and question number on each page used.
2. ALL questions are compulsory.
3. Omission of and or wrong numbering of a question or part of the question will result in 10% deduction of the marks scored from the relevant part.
4. Do NOT use a pencil.
5. Mobile phones are NOT allowed in the examination hall.

**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS MICROBIOLOGY - 10 MARKS**

Q.1. Bacteria must metabolise food from environment by:

1. Active transport.
2. endocytosis.
3. Excreation.
4. Extocytosis.

Q.2. Louis Pasteur performed experiment to:

1. Classify bacteria by gram stain.
2. Discover gonorrhoea disease.
3. Test germ theory of disease.
4. To disprove the theory of spontaneously generation.

Q.3. Micro-bial growth requires the following for their adequate growth except:

1. Moisture.
2. PH.
3. Toxicity.
4. Temperature.

Q.4. Bacteria that produce endospores which are very toxic include the following except:

1. Clostridia bolulitum.
2. Clostridia tetanus.
3. Anthracis bacillus.
4. Eschelichia coli bacteria.

Q.5. The population growth curve involves 4 phases such as except:

1. Log.
2. Lag.
3. ADP.
4. Stationary.

Q.6. Gram stain classifies bacteria into two (2) groups namely gm +ve and gm –ve bacteria. Which of the following bacteria is gm +ve?

1. Eschelichia coli.
2. Staphlococci spp.
3. Klebsiela spp.
4. Shigella spp.

Q.7. Salmonella species causes the following diseases:

1. Tuberculosis.
2. Dysentery.
3. Typhoid fever.
4. Gonorrea.

**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS MICROBIOLOGY -10 MARKS**

Q.8. Streptococci pyogenes causes:

1. Tonsillitis.
2. Diarrhoea.
3. Amoebic dysentery.
4. Typhoid fever.

Q.9. Giardiasis is caused by:

1. Giardia lamdia.
2. Entamoeba histolytic.
3. Entamoeba coli.
4. Campylobacter jejani.

Q.10. Trichomoniasis is a protozoa infection caused by:

1. Neisseria gonorrhoea.
2. Treponema pallidum.
3. Bacillary anthracis.
4. Trichomanas vaginalis.

**PART TWO: SHORT ANSWER QUESTIONS MICROBIOLOGY – 24 MARKS**

Q.1. Tabulate five (5) differences between Eukaryotic and Prokaryotic cells. 10 marks

Q.2. Describe briefly the life cycle of malaria both in the mosquito and human. 10 marks

Q.3. State briefly the ‘biology of helminths’. 4 marks