**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR ONE SEMESTER ONE EXAMINATION**

**SEPTEMBER 2014 KRCHN CLASS (PRE-SERVICE)**

**MICROBIOLOGY EXAMINATION**

DATE: 5/3/2015 TIME:1 – 4.00 pm

**INSTRUCTIONS**

1. Enter your examination number and question number on each page used.
2. ALL questions are compulsory.
3. For part 1 (MCQs), write the answer in the spaces provided on the answer booklet.
4. For Part 2 (SHORT ANSWER QUESTIONS), answer the questions following each other.
5. For Part 3 (LONG ANSWER QUESTIONS), answer to each question MUST start on a separate page.
6. 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.
7. Do NOT use a pencil.
8. Mobile phones are NOT allowed in the examination hall.

For Examiner:

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| --- | --- | --- | --- | --- |
| **MCQS** | **SAQS** | **LAQS 1** | **LAQS 2** | **TOTAL** |
|  |  |  |  |  |

**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS) MICROBIOLOGY– 5 MARKS**

Q.1. Which of the following bacterial organisms are curved or comma-shaped rods?

1. Coccobacillus.
2. Spirochaete.
3. Spirillum.
4. Vibrio.

Q.2. Physical agents of sterilization and disinfection may include the following except:

1. Heat.
2. Filtration.
3. Radiations.
4. Alcohols.

Q.3. Sources of infection include the following except:

1. Insects.
2. Environment.
3. Animal cases and carriers.
4. Inhalation.

Q.4. Ebola is a ………….. disease.

1. Bacterial.
2. Viral.
3. Fungal.
4. Parasital.

Q.5. The following are protozoan pathogens of man except:

1. Sporozoa.
2. Flagellates.
3. Helminthes.
4. Amoeba.

**PART TWO: SHORT ANSWER QUESTIONS – MICROBIOLOGY – 40 MARKS**

Q.1. (a) Describe briefly any five (5) modes of infection. 5 marks

(b) List five (5) determinants of virulence in pathogenicity. 5 marks

Q.2. (a) Define the term immunity. 2 marks

(b) State two (2) major differences between innate and acquired immunity. 4 marks

(c) State two (2) uses of antibiotics. 2 marks

1. Name and outline briefly the determinant of antigenicity. 8 marks

Q.3. Define the following parasital terms:

1. Definitive host.
2. Intermediate host.
3. Reservoir host.
4. Vector.
5. Symbiosis.
6. Commensalism.
7. Parasitism. 14 marks