**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**YEAR ONE (1) SEMESTER ONE (1)**

**MARCH 2015 KRCHN CLASS (PRE-SERVICE)**

**MICROBIOLOGY EXAMINATION**

DATE: 25/9/2015 TIME 1 – 4.00 pm

**INSTRUCTIONS**

1. Read the questions carefully and answer only what is asked.
2. Enter your examination number and question number on each page used.
3. ALL questions are compulsory.
4. For part 1 (MCQs), write the answer in the spaces provided on the answer booklet and each MCQ is one (1) mark.
5. For Part 2 (SHORT ANSWER QUESTIONS), answer the questions following each other.
6. For Part 3 (LONG ANSWER QUESTIONS), answer to each question MUST start on a separate page.
7. 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.
8. Do NOT use a pencil.
9. 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. The normal commensal population of microbes is true for the following except:

1. Participates in the metabolism of food products.
2. Provides essential growth factors against infections with highly virulent organisms.
3. Stimulates the immune system.
4. Cause fatal diseases.

Q.2. Bacterial exist in different shapes except:

1. Cocci.
2. Bacilli.
3. Octad.
4. Spirilla.

Q.3. Which of the following is not an arrangement of flagella?

1. Capsule.
2. Monotrichous.
3. Amphitrichous.
4. Peritrichous.

Q.4. From available information, it appears that the following are true except?

1. IgG Protects the body fluids.
2. IgA Protects the body surfaces.
3. IgM Protects the blood stream.
4. Ig E Role not known.

Q.5. Host is defined as an organism which harbours the parasite and provides nourishment and shelter to the latter. It has the following types; except?

1. Definitive host.
2. Intermediate host.
3. Reservoir host.
4. Symbiosis.

**PART TWO: SHORT ANSWER QUESTIONS – MICROBIOLOGY – 35 MARKS**

Q.1. List three (3) types of Host – parasite relationships. 3 marks

Q.2. List five (5) reasons on the importance of microbiology to nursing. 5 marks

Q.3. Compare and contrast between prokaryotes and Eukaryotes (tabulate your

response). 10 marks

Q.4. Describe briefly the bacterial growth curve. 10 marks

Q.5. List seven (7) modes of spreading an infection from one individual to the other. 7 marks