**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR ONE SEMESTER ONE EXAMINATION**

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

**MICROBIOLOGY EXAMINATION**

DATE: 31 MARCH 2016 TIME: 1 – 4 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. Functions of microbiology include the following **except**:

1. Plankton formation.
2. Source of antibiotics.
3. Healing.
4. Fermentation.

Q.2. Hospital associated infections (HAI) source of infections include:

1. Excretions.
2. Drugs.
3. Medical experts.
4. Good record keeping.

Q.3. Endogenous sources of infection in patients except:

1. Surgical operations.
2. Instrumental manipulations.
3. Unsterile gloves.
4. Aseptic handwashing.

Q.4. Determinants of virulence include the following **except**:

1. Adhesion.
2. Invasion of tissue.
3. Congental.
4. Capsule.

Q.5. Physical agents for act as bactericidal include **except**:

1. Radiation.
2. Ultrasonic vibration.
3. Filtration.
4. Formaldehyde.

**PART TWO: SHORT ANSWER QUESTIONS – MICROBIOLOGY – 32 MARKS**

Q.1. Define the following terms:

1. Host.
2. Parasite.
3. Disease.
4. Symptoms.
5. Signs.
6. Infections.
7. Pathogen.
8. Virulence.
9. Pathogenicity.
10. Attenuated bacteria. 10 marks

Q.2. State five reasons why microbiology is important to nursing. 5 marks

Q.3. With the aid of a well labelled diagram, describe bacterial population

growth curve. 10 marks

Q.4. (a) State four (4) sources of microbiology. 2 marks

(b) List four (4) modes of infection / transmission. 2 marks

Q.5. Immunity refers to resistance of a host to pathogens and their toxic products.

What are these two (2) types. 2 marks

Q.6. Outline the life cycle of hookworm. 6marks