**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR ONE SEMESTER ONE EXAMINATION**

**MARCH 2016 KRCHN CLASS (PRE-SERVICE)**

**MICROBIOLOGY EXAMINATION**

DATE: 30/9/2016 TIME:…………………..

**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– 4 MARKS**

Q.1. Many useful functions are served by micro-organisms except:

1. Nitrogen fixation.
2. Plankton formation.
3. Source of antibiotics.
4. Cure of HIV infection.

Q.2. Which of the following microorganisms are gram positive bacteria?

1. Diplo-coccus Neisseria.
2. Kiebsiela.
3. Staplocococci.
4. Salmonella species

Q.3. Functions of antibodies include:

1. Does not bind to cell receptors.
2. Binds complement leading to complement bodies.
3. Acts on the cellular part of the body.
4. Reduces allergy.

Q.4. Pneumonia disease can be caused by?

1. Strepto-pneumoniae.
2. Gonorrhoea spp.
3. Bacillus attracis.
4. Taenia saginata.

**PART TWO: SHORT ANSWER QUESTIONS – MICROBIOLOGY – 45 MARKS**

Q.1. State five (5) significances of microbiology to nursing. 5 marks

Q.2. Bacteria exist in different shapes, name and draw at least five shapes. 5 marks

Q.3. With a well labelled diagram, demonstrate the anatomical morphology of bacterial

cell. 10 marks

Q.4. Give five (5) differences between a prokaryote and eukaryote cells. 10 marks

Q.5. With the aid of a well labelled am, describe the bacterial growth curve. 10 marks

Q.6. Differentiate between innate and acquired immunity. 5 marks