**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR ONE SEMESTER ONE SUPP. EXAMINATION**

**MARCH 2017 KRCHN CLASS (PRE-SERVICE)**

**MICROBIOLOGY EXAMINATION**

DATE: …………………… 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 MCQ (MULTIPLE CHOICE QUESTIONS) MICROBIOLOGY SUPP.– 5 MARKS***

Q.1. Bacteria fimbriae present on the outer cell surface are used for:

1. Attaching bacteria to various surfaces
2. Causing bacteria to move through fluids
3. Sensing changes in nutrient concentration
4. Pathway for the secretion of enzymes

Q.2. The following are sources of microorganisms except:

1. Air
2. Water
3. Soil
4. Beddings

Q.3. Helper cells belongs to:

1. T cells
2. Microphages
3. B cells
4. Monocytes

Q.4. Medical mycoses include the following except:

1. Subcutaneous
2. Opportunistic
3. Cutaneous
4. Enteric

Q.5. The significance of the plasma membrane is that:

1. It selectively allows some molecules to pass into the organism
2. It prevents movement of molecules out of the plasma
3. It is the site of protein synthesis
4. All of the above

***PART TWO SAQ (SHORT ANSWER QUESTIONS) MICROBIOLOGY SUPP. – 35 MARKS***

Q.1. State five (5) steps of replication of viruses. 10 marks

Q.2. State four (4) differences between innate immunity and acquired immunity. 4 marks

Q.3. State three (3) modes of transmission of microorganisms. 3 marks

Q.4. Outline five (5) factors that influence innate immunity. 5 marks

Q.5. State four (4) differences between viruses and bacteria. 4 marks

Q.6. State three (3) methods used in sterilizing instruments in the clinical area. 3 marks

Q.7. State two (2) types of acquired immunity. 2 marks

Q.8. Define the term, “microbiology”. 2 marks

Q.9. State two (2) types of transplants. 2 marks