**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR THREE SEMESTER ONE EXAMINATION**

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

**EPIDEMIOLOGY 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 TWO: SHORT ANSWER QUESTIONS – EPIDEMIOLOGY – 5 MARKS**

Q.1. Define the following terms/concepts as used in epidemiology:

1. Epidemiology
2. Prevalence.
3. Epidemic
4. Incidence.
5. Susceptible host. 5 marks

**PART THREE: LONG ANSWER QUESTIONS – EPIDEMIOLOGY – 40 MARKS**

Q.1. (a) Explain the steps you would undertake while carrying out a case control study. 5 marks

(b) Citing relevant examples for each, explain the difference between analytical

and descriptive study design. 5 marks

Q.2. An outbreak of cholera has been reported in your health facility where you are

in-charge as a nursing officer. Citing relevant examples, explain how you will

undertake the prevention and control program. 10 marks

Q.3. Assuming you have been appointed the nursing officer in-charge of disease

prevention and control program in Nyamira County. Describe why it is important

that you carry out epidemiological studies in the course of your work. 10 marks

Q.4. With the aid of a well labelled diagram, explain the relationship between the host,

agent, and environment in disease transmission. 10 marks