**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR 1 SEMESTER 1 SUPP. EXAMINATION**

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

**ENVIRONMENTAL HEALTH 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** |
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**PART ONE: MCQS (MULTIPLE CHOICE QUESTIONS) ENVIRONMENTAL HEALTH. – 5 MARKS**

Q.1. Fecal-oral route is a mode of transmission of which disease?

1. Water-washed diseases
2. Water-borne diseases
3. Water-related diseases
4. Schistosomiasis

Q.2. Flash method, high temperatures and low temperatures are method used in:

1. Pasteurization
2. Drying/smoking
3. Refrigeration
4. Saturation

Q.3. Vermin includes:

1. Rodents, fleas which diseases to animals, man
2. A method that involves the reduction of a disease by targeting the vector or vermin that transmits and spreads the diseases
3. A wide scope of typically biting insects or organisms that carries a disease like malaria
4. A method of prevention of the spread of some of the common

Q.4. Diseases due to water pollution, includes:

1. Asthma, typhoid, cholera, diarrhoea
2. Asthma, shigellosis, cholera, yellow fever
3. Hepatitis, giardiasis, rotavirus, Escherichia coli
4. Hepatitis, schistosomiasis, diarrhoea, cancer

Q.5. Food preservation is:

1. A principle of canning or bottling where the food is first heated to a temperature that will kill all bacteria
2. A method used to treat food for the purpose of prolonging it without losing quality
3. A method used to prevent dangerous multiplication of bacteria
4. A process of heat treatment of a food substance at specific temperatures and times aimed at destroying all pathogenic micro –organisms without affecting the nutritive qualities of such food.

**PART TWO: SAQS (SHORT ANSWER QUESTIONS) ENVIRONMENTAL HEALTH – 40 MARKS**

Q.1. State any five (5) sources of water contamination. 2½ marks

Q.2. Define the term “pollution”. 1 mark

Q.3. Name three(3) major types of pollution. 3 marks

Q.4. Outline four (4) methods of food preservation. 8 marks

Q.5. Explain four (4) sources of water contamination. 2 marks

Q.6. Describe briefly the primary sources of micro-organisms in food. 12 marks

Q.7. (a) List the three (3) aims of fighting for safe excreta disposal. 1 ½ mark

(b) State three (3) implications high on the list of environmental pollution as a

result of poor excreta disposal 3 marks

(c) Differentiate between “biodegradable refuse and non-biodegradable refuse” 2 marks