**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR TWO SEMESTER ONE EXAMINATION**

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

**VITAL STATISTICS 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:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MCQS** | **SAQS** | **LAQS 1** | **LAQS 2** | **TOTAL** |
|  |  |  |  |  |

**PART TWO: SHORT ANSWER QUESTIONS – VITAL STATISTICS – 35 MARKS**

Q.1. Outline three (3) levels of measurements in categorical variable. 3 marks

Q.2. Explain five (5) importances of demographic data. 5 marks

Q.3. In Nyamache Sub-County hospital there were the conditions in medical ward in 1980.

Malaria 12

Typhoid 48

Diarrhoea & vomiting 27

Anaemia 93

1. Construct a frequency distribution table. 4 marks
2. Sketch a pie chart. 3 marks
3. Sketch a bar graph. 2 marks

Q.4. The following data was obtained from a community survey in Nandi village in

Kericho in 1930.

1. Population estimate 500,000
2. Live birth 5,000
3. Death due to child birth 100
4. Still births 200
5. No. of birth to mother age group (15-25) 2,000
6. No. of birth to mother age group (26-30) 1,500
7. No. of birth to mother age group (31-49) 1,000
8. No. of mothers age group (15 – 25) 4,000
9. No. of mothers age group (26 – 30) 4,500
10. No. of mothers aged group (31-49) 3,000
11. Death under 1 year 2,000
12. People suffering from malaria 2,000
13. Death due to malaria 5,000
14. No. of people on TB treatment 3,000
15. No. of people newly diagnosed with TB 2,000
16. No. of women 3,000
17. Death due to pre-eclampsia 250

Calculate:

1. Crude death rate. 3 marks
2. Infant mortality rate. 2 marks
3. Cause of specific death rate from malaria. 3 marks
4. Total fertility rate. 4 marks
5. Prevalence rate of TB. 2 marks
6. Maternal mortality rate. 3 marks