**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR 2 SEMESTER 1 EXAMINATION**

**MARCH 2013 KRCHN CLASS (PRE-SERVICE)**

**VITAL STATISTICS EXAMINATION**

DATE: 27/2/2015 TIME:8.30 – 11.30pm

**INSTRUCTIONS**

1. Enter your examination number and question number on each page used.
2. ALL questions are compulsory.
3. For part 1 (MCQs), write the answer in the spaces provided on the answer booklet.
4. For Part 2 (SHORT ANSWER QUESTIONS), answer the questions following each other.
5. For Part 3 (LONG ANSWER QUESTIONS), answer to each question MUST start on a separate page.
6. 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.
7. Do NOT use a pencil.
8. 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 – VITAL STATISTICS – 20 MARKS**

Q.1. Outline five (5) uses of demographic data. 5 marks

Q.2. State three (3) levels of measurements in qualitative variable. 3 marks

Q.3. 50 clients attending family planning clinic in Maseno Sub-county hospital in 2009 gave their parity as follows:

6,3,5,1,1,2,2,0,4,3,4,3,1,1,1,2,2,2,1,2,3,5,4,5,0,0,3,3,3,4,2,2,2,0,0,1,0,0,1,

1,1,6,4,3,4,6,5,5,4,2,0.

1. Construct a frequency distribution table. 4 marks
2. Calculate arithmetic mean. 2 marks
3. Sketch a histogram. 3 marks

Q.4. The following data was obtained from a particular community survey in Matiya

Chumvi village in Mombasa county in 2008.

Population 400,000

Live birth 4,000

Deaths at 20 – 35 weeks of pregnancy 20

Death due to child birth 80

Still births 80

No. of births to mother age groups (15-25) 2,000

No. of births to mother age groups (26-30) 1,500

No. of births to mother age groups (30-49) 1,000

Death under 1 year 1,000

Fetal deaths 500

People who suffered from pneumonia 2,000

Death from pneumonia 8,000

No. of people on HIV//AIDS treatment 5,000

No. of people newly diagnosed with HIV/AIDS 1,500

Calculate:

1. Crude death rate. 3 marks
2. Infant mortality rate. 2 marks
3. Cause of specific death rate from pneumonia. 3 marks
4. Total fertility rate. 4 marks
5. Prevalence rate for HIV/AIDS. 2 marks
6. Maternal mortality rate. 3 marks