**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR TWO SEMESTER ONE EXAMINATION**

**MARCH 2014 KRCHN CLASS (PRE-SERVICE)**

**VITAL STATISTICS EXAMINATION**

DATE: 1 Dec. 2015 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 – 30 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;

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

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 mothers age group (26-30) 1,500

No. of births to mothers age group (30-49) 1,000

Deaths under 1 year 1,000

Fetal deaths 500

People who suffered from pneumonia 2,000

Deaths from pneumonia 8,000

Death from all causes 20,000

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