**KENYA MEDICAL TRAINING COLLEGE – NYAMIRA**

**END OF YEAR TWO SEMESTER ONE EXAMINATION**

**SEPTEMBER 2014 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 – P H C – 30 MARKS**

Q.1. Outline four(4) importance of demographic data. 4 marks

Q.2. Define the following terms:

1. Demography.
2. Mode.
3. Range.
4. Nominal scale.
5. Discrete scale.

Q.3. Data from a certain hospital indicated that they had 800 patients who were on anti-TB drugs in 2014. During the same year 100 more people got infected. The estimated population of the area around the hospital is 8,000 people. Calculate.

1. Incidence rate of TB in that area. 2 marks
2. Prevalence rate of TB in that area. 2 marks

Q.4. The following data was obtained from a particular community survey in 2013.

Population - 200,000

Live births - 3,000

Death from maternal cause – 150

Deaths under 1 year of age – 250

Deaths due to pregnancy – 220

Death under 28 days – 100

Still births – 50

Death due to PPH - 180

Deaths due to pneumonia – 100

Using the above data, calculate the following:

1. Crude birth rate. 2 marks
2. Infant mortality rate. 2 marks
3. Maternal mortality rate. 4 marks

Q.5. Nursing students in September 2014 KRCHN class have the following ages:

18, 19, 18, 17, 20, 23, 24, 27, 30, 34, 38, 26, 27, 25, 24, 23, 30, 32, 31, 33, 37, 28,

29, 26, 25, 26, 20, 28, 20, 27

1. Construct a frequency table. 5 marks
2. Find out mode. 1 mark
3. Present the data above in a line graph. 4 marks
4. Present the data above in a histograph. 4 marks