

091906T4HRI

Health Records and Information Technology Level 6

AITC/HRIT/11/6/A

Apply Demography in Health Information Management



AMREF INTERNATIONAL TRAINING CENTER

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. You have **THREE** hours to answer all the questions.
2. Marks for each question are indicated in the brackets.
3. The paper consists of **TWO** sections: A and B.
4. Do not write on the question paper.
5. A separate answer booklet will be provided.

*This paper consists of **THREE (3)** printed pages*

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

SECTION A: (40 Marks)

Answer all questions in this section

1. Define the following terms as used in Demography:
 - a) Composition (2mark)
 - b) Distribution (2mark)
2. Demography is an essential entity in managing patients and data in relation to population structures
 - a) Define the term demography (1mark)
 - b) Highlight three applications of demography in current disease trends and population studies (3marks)
3. Managa village has got 3000 women in total. Given that of these women, 86% are women aged (14-44 years) of age. Calculate child women ratio given that total number of babies aged 0-4 years was 1200 babies. (4 marks)
4. In demography, researchers and data analysts focus mainly on studying the population. Highlight Four reasons why Census is conducted (4marks)
5. Most people in demography indicate the ability to promote economy or rely on others. Illustrate how dependency ratio clearly demonstrate this element (4 marks)
6. Using the knowledge acquired in these concepts, Outline FOUR examples of vital statistics (4marks)
7. If there were 84 males and 80 females in a class at a college; Calculate the sex ratio of the class (4marks)
8. Differentiate between sampling and questionnaire methods of data collection (4marks)
9. In a certain community, the number of babies born were recorded as 200 baby boys are born per 150 female babies. Calculate the sex ratio for this community (3 marks)
10. Shiama area is made up of a population of about 200000 people. The number of babies in the population is about 30% of the population and the elderly population recorded as 5%.

Calculate the dependency ratio given that 55% of the population is made of working and the rest being unemployed youths. (5 marks)

SECTION B: 60 MARKS

Answer any three questions

11. You are appointed as one of the enumerators for data collection using interview method and collect all the vital statistics
- a) Determine Five advantages of using interview as a method of data collection (10 marks)
 - b) Explain Five importance of vital statistics in demography (10marks)
12. Use the below table to answer the questions

| | Age in years | No. of women | Births |
|--|--------------|--------------|--------|
| | 15-19 | 106400 | 34341 |
| | 20-24 | 895300 | 162879 |
| | 25-29 | 1358100 | 200167 |
| | | | |

| | | | |
|--|-------|---------|--------|
| | 30-34 | 1541500 | 107188 |
| | | | |
| | 35-39 | 1243300 | 25604 |
| | | | |
| | 40-44 | 1189500 | 5123 |
| | | | |
| | 45-49 | 1196600 | 479 |
| | TOTAL | 7530700 | 535781 |

Use the above table to answer question 13

- (i) Age specific fertility rate (A.S.F.R/1000 women) (12marks)
- (ii) Total Fertility Rate(TFR) (5marks)
- (ii)Crude Birth Rate (CBR), discuss briefly the CBR (3marks)

13. Mortalities and morbidities are usually common measures for demographic studies and data analytic structures.

| Age group | | Population | No. of Deaths |
|-----------|------|------------|---------------|
| 0 – 4 | | 155,900 | 4108 |
| 5–14 | | 498,100 | 6566 |
| 15 | – 24 | 495,000 | 5252 |
| 25 | – 34 | 487,400 | 1418 |

| | | | |
|----|-------|---------|------|
| 35 | – 44 | 381,500 | 1823 |
| 45 | – 54 | 322,300 | 3408 |
| 55 | – 64 | 266,800 | 7022 |
| 65 | – 74 | 143,300 | 9298 |
| 75 | + | 84,500 | 1325 |
| | Total | | |

Use this table to answer question 14

- a) In this village the mortalities were recorded as per this table and researches were conducted. Calculate Crude death rate for this population (3 marks)
- b) Establish age specific death rate for this community (7 marks)
- c) According to your findings, explain five applications of this data (10 marks)
14. In the world today, many countries have experienced continuous growth of population and this has resulted in limited resource allocation. As a result of this, many governments have come up with policies to manage growing population.
- a) Explain what you understand by population policy (4marks)
- b) Evaluate FIVE reasons why the government of Kenya needs to formulate population policies (10marks)
- c) Discuss THREE objectives of the national population policy of Kenya (6marks)