Instructions:

1. Answer all the questions in Section A and ANY other 2 questions in Section B.
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.
SECTION A (30 MARKS)

1. Explain three roles of demography in Public Health citing examples (3 marks)
2. Briefly explain three reasons for census taking in a country (3 marks)
3. Differentiate between achieved and ascribed demographic characteristics and give an example of each (3 marks)
4. Explain briefly the population growth concepts (3 marks)
5. Discuss briefly three factors that determine the age and sex structure of a population, and the changes over time (3 marks)
6. Briefly discuss three consequences of rapid population growth on health (3 marks)
7. Explain briefly three proximate determinants of mortality (3 marks)
8. Briefly discuss three uses of population projections (3 marks)
9. Briefly discuss three consequences of migration of public health importance (3 marks)
10. Define rates as used in demography and health and differentiate between crude and specific rates (3 marks)

SECTION B (30 MARKS)

1a) Define Total Fertility rate. (1 mark)
b) Using the data below compute the TFR (14 marks)

Table: Reported number of births in the last 12 months by women in a survey in a certain population

<table>
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<tr>
<th>AGE OF WOMEN</th>
<th>NUMBER OF WOMEN</th>
<th>BIRTHS IN THE LAST 12 MONTHS</th>
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</tbody>
</table>

2. Discuss the demographic transition theory of population, describing how the natural increase in population changes through the different stages of the model and the probable causes of these changes (15 marks)

3. Vital statistics are important to researchers, epidemiologist, health planners, and other health professionals. Discuss. (15 marks)

4. Study each population pyramid & answer the questions below for each graph:

a. Which type of population pyramids are represented below (2 marks)

b. Describe and give reasons for each of the population pyramids (10 marks)
c. List and explain three demographic measures that can be obtained from population pyramids (3 marks)