



UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**THIRD YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN GEOGRAPHY**

GEOG 317: DEMOGRAPHY

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [14.30 – 16.30 P.M]

DATE: 03/02/2026

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS

- Answer question **ONE** and any other **TWO** questions
- Sketch maps and diagrams should be used whenever necessary.
- Do not write on your question paper

QUESTION ONE (30 MARKS)

- a) Write short notes on the following terms and concepts:
- i) Fecundity (2 Marks)
 - ii) *De jure* and *De facto* population census (4 Marks)
 - iii) Net migration and gross migration (4 Marks)
- b) Explain three characteristics of vital registration system (6 Marks)
- c) Discuss three demographic factors influencing population growth (6 Marks)
- d) Outline **four** challenges of measuring migration (8 Marks)

QUESTION TWO (20 MARKS)

- a) Explain the uses of age data in demography (5 Marks)
- b) The table below represents data on the projected age structures provided for MDRs and LDRs.

Region	0–14	15–24	25–64	65+
MDRs	191,776	132,347	610,923	344,867
LDRs	1,863,883	1,206,150	4,181,103	1,203,986

Using the data, compute:

- i) Percentage distribution (3 Marks)
- ii) Child dependency ratio (3 Marks)
- iii) Aged dependency ratio (3 Marks)
- iv) Total dependency ratio (3 Marks)
- v) Comment on MDR vs LDR age structures (3 Marks)

QUESTION THREE (20 MARKS)

- a) Define and give formula for calculating the following parameters in demography:
- i) Age Specific Birth Rate (4 Marks)

ii) Total Fertility Rate

(3 Marks)

iii) Net Reproduction Rate

(3 Marks)

b) The table below show data on the Total Fertility Rate of a certain geographic area.

Age Group	Women	Births
15–19	1,754	20
20–24	1,638	136
25–29	1,221	313
30–34	1,088	453
35–39	768	613
40–44	638	695
45–49	434	787

Using the given data, compute the Total Fertility Rate

(10 Marks)

QUESTION FOUR (20 MARKS)

a) Discuss any **Five** factors responsible for high infant and child mortality rates in Kenya

(10 Marks)

b) Outline the prevailing challenges facing health sector in Kenya since the promulgation of the 2010 constitution

(10 Marks)

QUESTION FIVE (20 MARKS)

a) Discuss any **Five** determinants of internal migration in Kenya

(10 Marks)

b) Examine the impacts of an ageing population on national development of any country

(10 Marks)