

QUESTION 1 (12+8 marks)

- a. Describe a working life table, the assumptions on which it is constructed, and its applications.
- b. Below is an extract of a life table from a certain population:

Age Group	Survivors at age x	Person-years lived
x, x+n	l_x	L_x
60-64	46 940	216 798
65-69	39 779	176 886
70-74	30 973	122 035
75+	20 641	124 507

Construct a working life table for this population given the following age-specific activity rates:

Age group	Age specific activity rates
60-64	0.086
65-69	0.075
70-74	0.045
75+	0.026

QUESTION 2 (4+4+4+4+4 marks)

Explain fully the differences between the following concepts and measures:

- a. unemployment and underemployment;
- b. crude activity rate and general activity rate;
- c. age dependency ratio and economic dependency ratio;
- d. occupation and industry of a worker; and
- e. unpaid family worker and homemaker.

QUESTION 3 (12+8 marks)

- a. Explain fully the following measures and their use:
- (i) gross years of active life;
- (ii) net years of active life;
- (iii) replacement rate; and
- (iv) replacement ratio.

- b. Describe labour force projections and the assumptions usually used in their preparation.

QUESTION 4 (7+7+6 marks)

Write short critical notes on the following fertility theories/hypotheses:

- a. Relative income hypothesis (Easterlin);
- b. New home economics (Becker and Willis);
- c. secularization and individualism (Lesthaeghe)

QUESTION 5 (6+8+8 marks)

Briefly describe the following theoretical approaches to migration:

- a. Intervening opportunities/obstacles;
- b. Beshers' modes of orientation; and
- c. Cumulative causation and migration.

QUESTION 6 (20 marks)

Critically discuss the epidemiological transition theory (Omran). Make sure to discuss its applicability to developing countries in the era of HIV and AIDS.

QUESTION 7 (10+10 marks)

- a. Describe the relationship between labour force participation of women and fertility in the context of developing and developed countries.
- b. What are the issues that make female labour force participation different from that of males?