



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF ENVIRONMENTAL SCIENCE**

**DEPARTMENT OF ENVIRONMENTAL SCIENCE**

**BACHELOR OF SCIENCE HONOURS DEGREE IN ENVIRONMENTAL SCIENCE  
AND HEALTH**

**POPULATION AND DEVELOPMENT**

**ESH 1210**

**Final Examination Paper**

**March 2025**

This examination paper consists of 3 pages

**Time Allowed: 3 hours**

**Total Marks: 100**

**Special Requirements: None**

**Examiner's Name: Dr N Manyeruke**

**INSTRUCTIONS**

1. Answer any **FOUR** (4) questions
2. Each question carries 25 marks
3. Section A is compulsory

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
<b>TOTAL</b>	<b>100</b>

**Section A (Compulsory)**

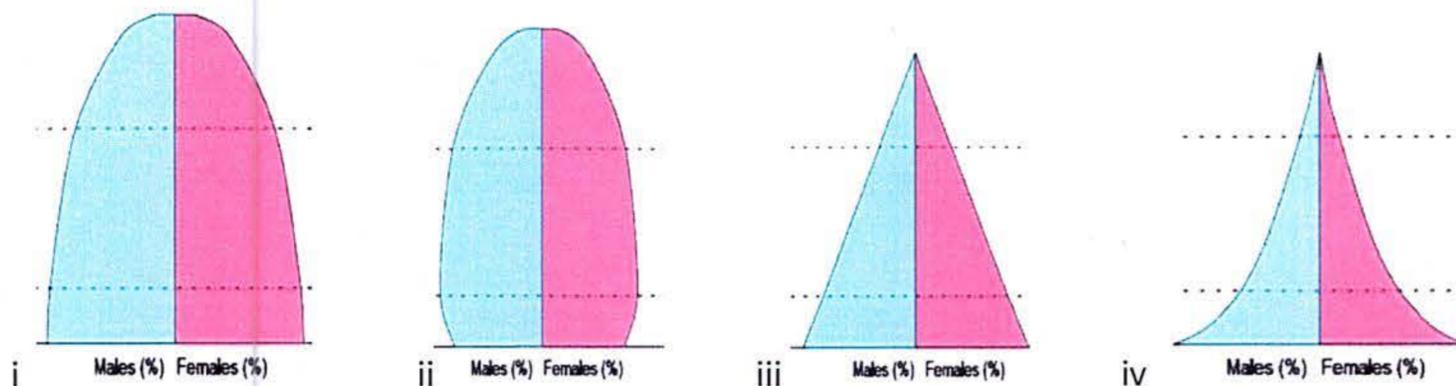
1. Using the data in table 1, calculate:
  - a. General fertility rate (GFR). (7 marks)
  - b. Total fertility Rate (TFR). (8 marks)

Age of women	Female population	Number of births
(1)	(2)	(3)
15–19	2 528 642	190 047
20–24	2 195 230	288 428
25–29	2 035 814	274 445
30–34	1 746 412	196 776
35–39	1 630 264	119 822
40–44	1 385 832	46 342
45–49	1 119 776	13 640

- c. Explain any five factors that affect fertility levels of a community in developing countries. (10 marks)

**Section B**

1. Study the following population pyramids that represent population characteristics for four countries and answer the following questions.



- a. Compare and contrast the demographic characteristics presented in the pyramids. (10 marks)
  - b. Giving reasons classify the countries represented by the above pyramids in their order of level of development. (15 marks)
2.
  - a. In relation to sustainable management of natural and manmade resources, justify the need for a census in Zimbabwe. (15 marks)
  - c. Discuss the contention that population data from developing countries is usually unreliable. (10 marks)

3. Discuss the contention that “population growth is detrimental to development”.
4. With reference to specific examples, discuss the impacts of migration on Zimbabwe.
5. Evaluate the effectiveness of the Zimbabwe National HIV and AIDS Strategic Plan in addressing HIV and AIDS.