

**UNIVERSITY OF SWAZILAND**



**MAIN EXAMINATION PAPER 2015/2016**

- TITLE OF PAPER :** INTRODUCTION TO POPULATION DYNAMICS
- COURSE CODE :** DEM 201
- TIME ALLOWED :** THREE (3) HOURS
- INSTRUCTION :** 1. ANSWER ANY FOUR QUESTIONS.  
2. ALL QUESTIONS ARE WORTH 25 MARKS EACH
- REQUIREMENT :** SCIENTIFIC CALCULATOR

### Question 1

- a. Outline the general formula for measuring population change, defining all terms [5]
- b. Explain why having a demographic perspective is important in demographic analysis [6]
- c. Fully interpret the following information relating to a particular country in 2015

Index	Level
1. Age Specific Fertility Rate 30-34	80.3
2. Total Fertility Rate	5.4
3. Gross Reproduction Rate	2.6
4. Infant Mortality Rate	53
5. Maternal Mortality Ratio	14.1
6. $e_0$	72
7. $e_{30}$	43

[14]

[25 marks]

### Question 2

- a. Distinguish between a ratio and a proportion. Give examples of each, of a demographic nature [4]
- b. Define and explain the importance of infant mortality rate as a demographic measure [5]
- c. Discuss the four general profiles of the age-sex structure for the different levels of population growth. Draw the corresponding pyramid for each [16]

[25 marks]

### Question 3

Discuss the Malthusian theory of population growth. How do neo-Malthusians differ from Malthus? [25 marks]

### Question 4

Discuss the demographic and economic impact of migration in both sending and receiving countries [25 marks]

**Question 5**

The high income countries are currently faced with below- replacement-level fertility and population ageing. Discuss the consequences of low fertility and population ageing and the pertinent policy responses that are necessary for these countries to address the current population problems **[25 marks]**