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UNIVERISTY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING FINAL EXAMINATION, MAY 2016 B.A., B.Ed., B.Sc., BASS, JMC3, IDE.

TITLE OF PAPER: INTRODUCTION TO THE HUMAN ENVIRONEMNT

- COURSE NUMBER: GEP 112 / 121
- TIME ALLOWED: THREE (3) HOURS
- INSTRUCTIONS: THIS PAPER IS DIVIDED INTO TWO SECTIONS

SECTION A: TECHNIQUES AND SKILLS

- 1. ANSWER ALL QUESTIONS (COMPULSORY) 2. THIS SECTION CARRIES 40 MARKS
- SECTION B: SHORT ANSWERS / ESSAYS
 - 1. ANSWER ANY TWO QUESTIONS
 - 2. EACH QUESTION CARRIES 30 MARKS

SPECIAL REQUIREMENTS: Graph paper

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GEP 112 / 121: INTRODUCTION TO THE HUMAN ENVIRONMENT - MAY 2016

SECTION A: TECHNIQUES AND SKILLS (40 MARKS) COMPULSORY

QUESTION 1

a) Using an appropriate graphical technique, represent the data in Table 1 below. (10 marks)

b) Indonesia consists of more than 3,000 islands and covers an area about 1,770 km from north to South and 4,506 km from east to west, the total land area being 1,183,115 square kilometres (including New Guinea). In 2014 the population of Indonesia was 252,812,245 of which 15.46 per cent were less than 5 years of age and 30.93 per cent were females in the age group 15 – 44 years. There are marked regional variations in population density in Indonesia. In 2014 the islands of Java, Madura and Bali had two-thirds of Indonesia's population, while these islands cover only 7 per cent of the land area. In 2014, 10 850 000 babies were born in Indonesia, 51.22 per cent being male and only 5 111 545 of these male babies survived the first year of life.

Using the above information, calculate the following showing the formula and workings:

i) The density of population for the land area covered by islands of Java, Madura and Bali in 2014.

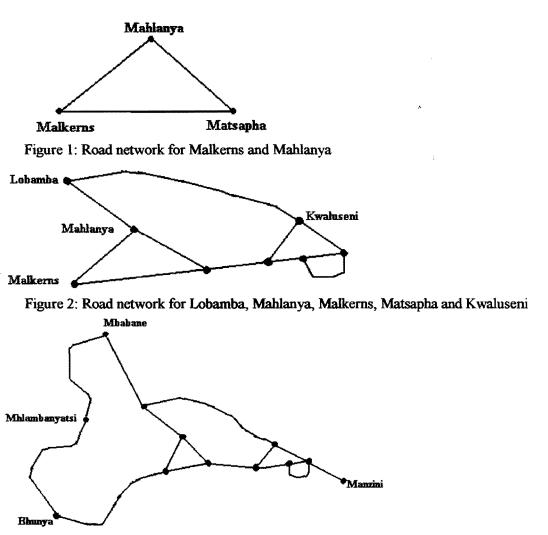
		(2 marks)
ii)	The sex ratio at birth in Indonesia in 2014.	(3 marks)
iii)	The crude birth rate in Indonesia in 2014.	(3 marks)
iv)	The child woman ratio for Indonesia in 2014.	(3 marks)
V)	The male infant mortality rate for Indonesia in 2014.	(3 marks)

c) Applying the planar and non-planar graph gamma (γ) indexes of connectivity calculate the degree of connectivity of places appearing in figures 1, 2, 3, and 4.
(16 marks)
(40 Marks)

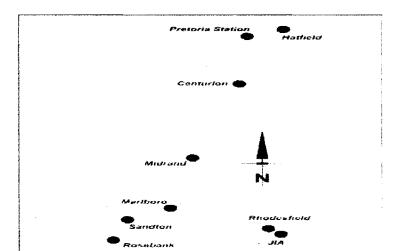
Table 1: Average cotton exports of African cotton producing countries from 1995 - 1999

Country	Money in US \$ (in millions)
Egypt	150
Cameroon	90
Sudan	80
Benin	300
Mali	230
Burkina Faso	135
Chad	190

Source: UNCTAD computations from ICAC statistics (2011)







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SECTION B: SHORT ANSWERS / ESSAYS (60 MARKS) ANSWER ANY TWO QUESTIONS

QUESTION 2

With reference to an informal settlement of your choice in Sub Saharan Africa, explain the environmental problems posed by informal settlements. (30 Marks)

QUESTION 3

Using examples, explain how diseases are linked to economic development. (30 Marks)

QUESTION 4

With reference to floods, explain the role of human beings in the occurrence of hazards. (30 Marks)

QUESTION 5

Argue for or against the statement that 'there is globalization in the world'. (30 Marks)