UNIVERSITY OF ESWATINI

RE-SIT EXAMINATION PAPER 2018/2019

TITLE OF PAPER   :   POPULATION DYNAMICS I

COURSE CODE   :   DEM 215

TIME ALLOWED   :   TWO (2) HOURS

INSTRUCTIONS   :   ANSWER ALL QUESTIONS.

REQUIREMENTS :   SCIENTIFIC CALCULATOR

Question 1

Using the information in the table below, calculate and interpret:

    a.   Crude Birth Rate   [5 marks]

    b.   Age-Specific Fertility Rate for each age group.   [8 marks]

    c.   The General Fertility Rate (for women aged 15 – 49 years)   [5 marks]

    d.   Total Fertility Rate (for women aged 15 – 49 years)   [5 marks]

    e.   Gross Reproduction Rate (for women aged 15 – 49 years)   [5 marks]

    f.   Net Reproduction Rate (for women aged 15 – 49 years)   [7 marks]

Age Group	Total Population	Sex Ratio	Number of births to women in age group	Sex Ratio at birth	Proportion of female babies surviving to midpoint of age interval
0-4	130,208	100.35	0	0.00	0.98934
5-9	129,828	100.6	0	0.00	0.98712
10-14	127,437	100.2	45	104.32	0.98609
15-19	120,168	102.94	2546	104.70	0.9837
20-24	106,516	96.39	5619	104.72	0.98128
25-29	96,739	92.75	5701	104.71	0.97871
30-34	86,370	95.31	4046	104.70	0.97524
35-39	66,981	99.72	1388	104.71	0.96953
40-44	49,696	96.68	210	104.72	0.95995
45-49	41,278	86.91	11	104.70	0.95208
50-54	32,818	75.27	0	0.00	0.92389
55-59	27,816	76.56	0	0.00	0.91968
60-64	22,869	78.52	0	0.00	0.89081
65-69	17,359	72.95	0	0.00	0.87721
70-74	13,254	60.54	0	0.00	0.79717
75-79	9,148	61.51	0	0.00	0.66714
80+	9,039	45.96	0	0.00	0.00000

Question 2

Describe and illustrate the demographic transition theory taking not of the stages as well as the critics of the theory. [25 marks]

Question 3

Based on your knowledge of demographic perspectives which writer—Malthus or Marx— would sound most modern and relevant to twenty-first century demographers? Defend your answer. [20 marks]

Question 4

It was obvious even in Malthus's lifetime that his theory had numerous defects. Why then, are we still talking about it? [20 marks]