UNIVERSITY OF ESWATINI

RE-SIT EXAMINATION PAPER
YEAR 2019

COURSE TITLE: COLLECTION AND ASSESSMENT OF DEMOGRAPHIC DATA

COURSE NUMBER: DEM 213

TIME ALLOWED: 2 (TWO) HOURS

INSTRUCTIONS: Answer any 3 (Three) Questions

SPECIAL REQUIREMENTS: NONE

Question 1

a) How do content and coverage errors overlap?   [4 points]

b) Pre-coding may lead to errors. Using an example show how.
   [4 points]

c) Using any one method, explain what are moving average methods.
   [12 points]

Question 2

In the calculation of Age Ratios, the United Nations (UN) , Zelnik and Ramachandran methods may be used. Discuss fully these methods emphasizing the rationale for their formulation
   [20 points]

Question 3

a) Why is population data presented preferably in age groups rather than in single years?   [6 points]

b) When detecting errors in data, internal consistency check can be used, then vertical and horizontal consistency checks employed. Explain the meaning of the statement   [14 points]

Question 4

a) Given accurate Births (B), Deaths (D), Immigrants (I), Emigrants (E) and Population initial (P1) show how you can use the Balancing Equation to estimate the accuracy of a census count at a later date (P2)
   [14 points]

b) What are Post Enumeration Surveys and how are they employed to help detect errors in data.   [6 points]

Question 5

a) The UN Joint Score Index in essence combines a vertical and a horizontal method of data consistency check. Explain how this index does this.
   [10 points]

b) The Whipples Index is a very crude method of measuring digit preference compared to the Digit preference Index. Show how.
   [10 points]