University of Colombo

Faculty of Arts

Bachelor of Arts Degree Examination - First year

Semester End Examination – Semester I – 2015/2016

DMG 1101: Introduction to Demography

Answer three (03) questions only.   Time: Two (02) hours

1. a) Explain the nature of Demography using an appropriate definition.

(08 marks)

b) Briefly explain four (4) sources of demographic data and examine their importance for socio-economic planning by citing examples.

(12 marks)

2. a) "Fertility and mortality measures are important in analysing social development of a country". Examine this statement by citing examples.

(08 marks)

b) The following table provides female population and live births for country X for year 2010.

Age group	Female population ('000) in 2010	Total live births in 2010
15-19	993	19,975
20-24	970	74,181
25-29	831	117,862
30-34	799	95,957
35-39	777	43,676
40-44	718	10,943
45-49	638	1,221

Midyear population in 2010 = 20,675,000

Infant deaths in 2010 = 3,900

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Using the data given in the above table, calculate the following measures:

    I.   Crude Birth Rate (CBR)

    II.   Infant Mortality Rate (IMR)

    III.   Age Specific Fertility Rates (ASFRs)

    IV.   Total Fertility Rate (TFR)   (12 marks)

3. Explain the characteristics of the different stages of the demographic transition taking Sri Lanka as an example.

                                      (20 marks)

4. a) Briefly explain the importance of the Balancing Equation Method for estimating the population of a country.

                                        (08 marks)

   b) The following table gives information on how the population is distributed according to their districts of birth and districts of residence of country X in 2011. Calculate the following migration measures by using these data.

Districts of birth \ Districts of residence	A	B	C	D	E
A	10,501	347	409	122	486
B	164	9,865	287	188	226
C	303	539	18,161	205	168
D	266	480	135	19,226	619
E	567	187	204	625	8,095

    I.   Number of life time non-migrants for districts A and C

    II.   Number of life time in-migrants for districts A and B

    III.   Number of life time out-migrants from districts D and E

                                        (12 marks)

5. Write short notes on any **four** (04) of the following topics.

   a) Population ageing
   b) Age-sex structure of a population
   c) Urbanization in Sri Lanka
   d) Replacement level of fertility
   e) Re-migration
   f) Demographic dividend

                                                                    (5 marks each)