

University of Colombo
Faculty of Arts
Bachelor of Arts Degree Examination (General/Special) – Third Year
Semester End Examination – Semester I – 2016/2017
DMG 3148: Fertility Studies

Answer three (03) questions only.
Calculators can be used.

Time: Two hours (02)

This paper consists of two (02) pages and five (05) questions

- 1) Discuss why it is important to use fertility models when studying fertility trends in country by selecting any country as an example. (20 marks)
- 2) Discuss with examples how fertility behaviour affects each stage of the fertility transition in Sri Lanka. (20 marks)
- 3) "Education affect fertility of a country." Examine this statement by using the Wealth Flow Theory of Fertility Decline. (20 marks)
- 4) a) Explain the importance of Parity Progression Ratio in studying fertility. (06 marks)
 b) Calculate the Parity Progression Ratio using the following data. (14 marks)

Duration of Marriage	Number of births per 1000 marriages of 1987						
	Number of births in 1987 by Birth order						
	1	2	3	4	5	6-9	10+
0	204	27	3	0	0	0	0
1	280	216	82	21	5	0	0
2	77	145	135	80	34	11	0
3	23	38	61	47	35	29	1
4	3	20	12	19	7	34	1
5	0	2	3	3	2	10	1
6	0	0	0	0	1	0	1

- 5) Fertility data related to the country "X" in 2010 and Age Specific Fertility Rates of the Hutterite Population are given below. Using these data, calculate the Coale's indices of Fertility.

Age group	Female population	Married female Population	Age specific fertility rates of Hutterite Population
15-19	98,300	8,740	0.300
20-24	97,874	54,200	0.550
25-29	91,245	71,230	0.502
30-34	75,635	64,250	0.447
35-39	78,765	70,896	0.406
40-44	78,200	68,754	0.222
45-49	73,654	61,440	0.061

Legitimate births=52,460

Illegitimate births=5,786

- Comparative Index of General Fertility (If)
- Comparative Index of Legitimate Fertility (Ig)
- Comparative Index of Illegitimate Fertility(Ih)
- Comparative Index of Proportion Married (Im)
- Discuss your results

(4x5=20 marks)