2019

3rd Semester Examination

STATISTICS (Honours)

Paper - C6P

Full Marks: 20

Time: 3 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

 Calculate the GRR and NRR from the data given in adjoining table

Age group	Female	Female	Survival rate	
	Population	births		
	(in thousand)			
15-19	1600	19,000	0.921	
20-24	1000	70,200	0.901	
25-29	1685	90,600	0.885	
30-34	1730	62,400	0.862	
35-39	1725	32,500	0.850	
40-44	1620	11,000	0.832	
45-49	1510	800	0.812	

2.	Given the following table for l_x , the number of rabbits lining at age x, complete the life table for rabbits. 8										
	x:	0	1	2	3	4	5	6			
	l_x :	100	90	80	75	60	30	0			
	x, y, z are three rabbits of age 1, 2, 3 respectively. Find the probability that										
	(i) at least one of them will be alive for one year more.										
	(ii) x, y, z will be alive for two years.										
	(iii) Exactly are of three will be alive in two years and										
	(iv) all will be dead in two years.										
3.	Viva voce.										
4.	. Practical note book.										