

U.G. 3rd Semester Examination - 2021**STATISTICS****[HONOURS]****Course Code : STAT-H-CC-P-6****(Demography and Vital Statistics Lab)****[PRACTICAL]**Full Marks : 25(20+5) Time : $1\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Notations and symbols have their usual meaning.*

1. Given the following table for l_x , the number of rabbits living at age x , complete the life table for rabbits:

x	0	1	2	3	4	5	6
l_x	100	90	80	75	60	30	0

A,B,C are three rabbits of age 1, 2 and 3 years respectively, find the probability that at least one of them will be alive for one year or more. 6

2. Compute the standardized death for population B considering population A as, standard population:

Age group (years)	Population A		Population B	
	Population	Death	Population	Death
Under 10	20,000	600	12,000	372
10 - 20	12,000	240	30,000	660
20 - 40	50,000	1250	62,000	1612
40 - 60	30,000	1050	15,000	525
Above 60	10,000	500	3,000	180

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3. Practical Note book 5
4. Viva-voce 5

[Internal Assessment: 5]