

2018

CBCS

3rd Semester

STATISTICS

PAPER—C6P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Demography and Vital Statistics Lab.

1. A part of a life table is given here with most of the entries missing. On the basis of the available figures, supply the missing ones.

Age x	l_x	d_x	q_x	L_x	T_x	e_x^0
10	74,600		0.0035			
11			0.00338			
12			0.00361			
13			0.00420			
14			0.00517			
15			0.00530			
16			0.00538			
17			0.00544			
18			0.00549			
19			0.0554			
					2,607,040	

Hence determine, according to the life table the probability

- that a child of age 10 will live at least 5 years more,
- that two children aged 10 and 11 will each live at least 5 years more,

- (c) that of two children aged 10 and 11, at least one will die within 9 years. 8

2. The number of births occurring in Israel in 1988 is shown here classified according to age of mother, together with the female population in each age-group of the child-bearing period :

<i>Age</i>	<i>Female Population (000)</i>	<i>Number of births to mothers in the age-group</i>
15-19	200.6	4,227
20-24	173.5	26,099
25-29	161.7	32,844
30-34	160.9	23,449
35-39	155.7	11,588
40-44	125.6	2,071
45-49	87.6	122
Total	1,065.6	1,00,400

3. Laboratory Note Book

3

4. Viva-Voce

2
