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2017

STATISTICS

[Honours]

(CBCS)

(Practical)

PAPER - C2P

Full Marks: 20

Time: 2 hours

Answer three questions

Questions are to be drawn by lottery basis.

The figures in the right hand margin indicate marks

 In a classic study of human sex-ratio the families were categorized according to the sexes of the children. Data are collected from 72069 families, 2. A part of a life table is given here with most of the entries missing. On the basis of the available figure supply the missing ones. Hence determine the probability that a child of age 10 years will live at least 5 year.

Age	lx	dx	1000 gx	Lx	Tx	l°x
10	93,102		0.62			
11		1	0.66			
12			0.72			
13			0.80			
14	1		0.90			
15			1.00			
16			1.12			
17			1.23			
18		ľ	1.33			
19			1.40			
					4842,446	

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3. Following it the frequency distribution of right hand grip for 340 European males:

Right hand grip (in FB)	Frequency	
30-40	1	
40-50	8	
50-60	50	
60-70	101	
70-80	108	
80-90	59	
90-100	16	
100-110	4	
110-120	1	

Fit a normal distribution to the above data and obtain the expected frequencies.

which is shown below. Fit a binomial distribution to the following data:

No. of of boys	0	1	2	3	4	5	6	Total
No. of girls	6	5	4	3	2	1	0	72069
No. of families	1096	6233	15700	22221	17332	7908	1579	

4. The following table gives the census population data for USA. Fit a logistic curve with a suitable methods.

Year	Population (in millions)	Year	Population (in millions)
1800	5-3	1890	63
1810	7.2	1900	. 76
1820	9.6	1910	92
1830	12.9	1920	105-8
1840	17.1	1930	122-8
1850	23.2	1940	131-7
1860	31.4	1950	150.7
1870	38.6	1960	179-3
1880	50.2		

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Fit the Poisson distribution of the following 5. data:

Marks 40 50 60 70 80 90 95 No. of students: 10 12 15 19 21 13 3

Fit the binomial distribution for the following data: Face of a die: 1 6

No. of times : 3 8

Laboratory Note Book.

Viva-voce.

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