2019

B.Sc.

4th Semester Examination

STATISTICS (Honours)

Paper - GE4P

(Applied Statistics Lab)

[Practical]

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.

1. The following table gives the prices and quantities of a number of commodities in a certain city. Calculate price index numbers for 2010 with 2000 as base your using (i) Laspeyre's (ii) Pasche's (iii) Marshall-Edgeworth and (iv) Fisher's formmulae :

Commodities	2000		2010	
	Price	Quantity	Price	Quantity
A	20	8	40	6
B	50	10	60	5
C	40	15	50	15
D	20	20	20	25

8

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

Age (x)	ex	dx	qx	Lx	Tx	$ex°$
10	74.600		.00350			
11			.00338			
12			.00361			
13			.00420			
14			.00517			
15			.00530			

16			.00538			
17			.00544			
18			.00549			
19			.00554		2,607,040	

7

3. Laboratory Note Book.   2

4. Viva-voce.   3

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