

U.G. 1st Semester Examination - 2020

STATISTICS

[HONOURS]

Course Code : STAT-H-CC-P-1

(Descriptive Statistics-Lab)

[PRACTICAL]

Full Marks : 25 (20+5)

Time : 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. The combined heights in inches of 10 pairs of brothers (x) and sisters (y) are shown in the following table:

Pair No.	1	2	3	4	5	6	7	8	9	10
Combined heights in inches (x+y)	140	132	131	130	135	133	135	137	138	124

The following figures are also given:

	Average height (in inches)	Standard deviation (in inches)
Brother (x)	69	2.59
Sister (y)	64	2.54

[Turn over]

Estimate the height of the sister whose brother measures 70 inches in height. 6

2. By using the following data verify whether the time-reversal test and factor reversal test are satisfied by the Laspeyres' formula or not. 4

Commodity	1980		1990	
	Price	Quantity	Price	Quantity
Rice	16.87	20964	17.50	22537
Jowar	10.09	5981	11.93	7243
Bazra	10.07	2309	13.33	3142
Maize	21.73	2043	15.67	2825
Ragi	9.45	1291	9.30	1316
Wheat	18.60	6085	23.67	7382
Barley	20.66	2330	17.29	2882
Gram	24.09	3334	19.01	4142

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

[Internal Assessment : 5]