

2018

CBCS

1st Semester

STATISTICS

(Honours)

PAPER—C1P

(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.

Descriptive Statistics Lab.

Group-A

Answer all questions.

1. The following table shows the heights x (cm) and the weights y (kg) of 15 students :

(Turn Over)

Height (x)	152.5	157.5	160.0	170.0	175.0
Weight (y)	56.0	55.8	55.0	55.4	58.2
	60.8	58.5	62.1	64.8	63.1
	57.9	50.7	61.3	58.5	56.3

(a) Estimate the weight of a student of height 172 cm.

(b) Calculate the correlation coefficient between height and weight. 3+2

2. From a frequency distribution of marks obtained in English by 2350 students of class-X, the first four moments about an arbitrary origin 38 were calculated as follows :

$$m_1^1 = 0.2957, m_2^1 = 4.8184,$$

$$m_3^1 = 4.2592 \text{ and } m_4^1 = 71.2537$$

Calculate (i) the same moments about origin 50 and the different measures of skewness and kurtosis. 2+3

3. With the following data relating to India, compute index numbers of wholesale crop prices for the year 1969-70, taking 1968-69 as base and using the Laspeyres' and Paasche's formulae.

**Wholesale Crop-Prices (Units : Rs. per quintal)
in 1968-69 and 1969-70**

Year	Rice	Wheat	Jowar	Barley	Maize	Gram
1968-69	119.00	82.56	56.00	55.62	60.58	83.42
1969-70	111.67	95.42	56.00	61.40	55.84	101.33

**Crop-Production (Units : Thousand Metric Tons)
in 1968-69 and 1969-70**

Year	Rice	Wheat	Jowar	Barley	Maize	Gram
1968-69	39,761	18,651	9,804	2,424	5,701	4,309
1969-70	40,430	20,093	9,721	2,716	5,674	5,546

Group-B

4. Laboratory Notebook.

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5. Viva-voce.

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