2019

B. Sc.

1st Semester Examination

STATISTICS (Honours)

Paper : C 1-P

(Practical)

(Descriptive Statistics)

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 practiable.

Answer *all* questions.

1. From a frequncy distribution of marks obtained in
   English by 2350 students of class – X, two firwt four
   moments about an arbitrary origin 38 were calculated
   as follows :

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

   $m_3^1 = 4.2592$ and $m_4^1 = 71.2537$

[Turn Over]

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

2. 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 Laspayres ; Paasche's and Fisher's ideal formulae.

Whole sale Crop prices (Units : Rs. per quintal in 1968-69 and 1969-70)

Year	Rice	What	Jowan	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	What	Jowan	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

3. The results of a visual acuity test and a balance test on 413 male college students is given in the following table. Compute different measures of association and comments.

Balance Test	Left-eyed	Ambiocular	Right-eyed	Total
Left-handed	48	25	52	125
Ambidextrous	32	13	25	70
Right-handed	94	33	91	218
Total	174	71	168	413

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4. Practical Note Book.   2

5. Viva-voce.   3

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