



DCL-1901250502040302 Seat No. _____

M. A. (Sem. IV) (CBCS) (W.E.F. 2019) Examination
July - 2022
Economics

(Basic Statistics for Economists)

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

1 नियत संबंधना घ्यालने समजावीने माहितीने आधारे श्रेष्ठ फ़िट लाईन शोधो. 14

X	10	15	25	30	40	45	60	65	70	90
Y	20	11	18	21	30	35	25	40	50	60

अथवा

सहसंबंध घ्यालने समजावीने माहितीनी उपयोगिताने आधारे नीचेना माटे सहसंबंधना गुणांकनुं मूल्य शोधो.

X	110	90	80	74	70	65	75	22	30
Y	20	11	18	21	30	35	25	40	50

2 प्रसारमाननी विभावना समजावीने प्रसारमाननी विभावनाना जुदाजुदा मापदंडे समजावो. 14

अथवा

नीचेनी माहिती परथी प्रभाषभूत विचलन अने विविधताना गुणांकनुं मूल्य शोधो.

X	10	30	50	70	90	110	130	150	170	190
(f)	8	12	18	28	50	32	24	14	9	5

3 मध्यक, मध्यस्थ अने बहुलकनी विभावना समजावीने नीचेनी माहिती माटेनुं मूल्य शोधो. 14

X	120–110	110–100	100–90	90–80	80–70	70–60	60–50	50–40	40–30	30–20
(f)	18	24	36	56	50	45	35	20	15	1

अथवा

संभावना शुं छे ? संभावनाना विविध नियमोने विगतवार समजावो.

- 4 સ્કવનેસ અને કટોસિસનો ખ્યાલ અને અર્થશાસ્ત્રમાં તેનો ઉપયોગ વિગતવાર 14
સમજાવો.

અથવા

દ્વિપદી સંભાવના વિતરણ વિગતવાર સમજાવો.

- 5 ચારમાંથી કોઈ બે લખો : 14
(1) Z ડિસ્ટ્રીબ્યુશન સમજાવો.
(2) ભારિત સરેરાશ આંક સમજાવો.
(3) સ્પિયરમેન ક્રમ સહસંબંધ સમજાવો.
(4) શરતી સંભાવના સમજાવો.

ENGLISH VERSION

- 1 Explain the concept of regression, find the line of best fit 14
for following data.

X	10	15	25	30	40	45	60	65	70	90
Y	20	11	18	21	30	35	25	40	50	60

OR

Explain the concept of correlation and its uses and find the value of coefficient of correlation for the following data.

X	110	90	80	74	70	65	75	22	30
Y	20	11	18	21	30	35	25	40	50

- 2 Explain the concept of dispersion and different measures 14
of dispersion in detail.

OR

Find value of standard deviation and coefficient of variation for the following data.

X	10	30	50	70	90	110	130	150	170	190
(f)	8	12	18	28	50	32	24	14	9	5

- 3 Explain concept of Mean, Median and Mode and find 14
values of Mean, Median and Mode for the following data.

X	120–110	110–100	100–90	90–80	80–70	70–60	60–50	50–40	40–30	30–20
(f)	18	24	36	56	50	45	35	20	15	1

OR

What is Probability ? Explain the various laws of probability in detail.

- 4** Explain the concept of Skewness and Kurtosis and its use in Economics in detail. **14**

OR

Explain the binomial probability distribution in details.

- 5** Write any TWO out four : **14**
- (1) Explain Z distribution.
 - (2) Explain Weighted Average.
 - (3) Explain the Spearman rank correlation.
 - (4) Explain concept of conditional probability.
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