2023

(FYUGP)

(3rd Semester)



ECONOMICS

3. State and expla (rojaM) reipal steps in sample survey

Paper Code: EC3 CC6

(Statistical Methods for Economics)

Full Marks: 75
Pass Marks: 40%

5. (a) Define arithmedo ment state its merits

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

Marks 1—TINU of Students

- 1. (a) Define statistics. State and explain the characteristics of statistics in plural sense. 3+7=10
 - (b) Distinguish between primary and secondary data.

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	(a)
sampling methods of collecting data	Distinguish between
cting data.	census
	and
7	

(b) State and explain the methods of collecting primary data.

UNIT-2

ω State and explain the principal steps in sample survey. What are the merits of sampling method? Explain. 8+7=15

What do you mean by sampling and nonsampling and non-sampling errors. sampling errors? Explain the reasons for 5+10=15

UNIT-3

5. (a) Define arithmetic mean. State its merits and demerits. 2+5=7

(b) deviation method from the following Calculate arithmetic mean by step distribution:

			in p			
50-60	40-50	30-40	20-30	10-20	0-10	Marks
10	20	30	25	B solution 0	Sī	No. of Students
						dents

(a) What do you mean by 'measures of dispersion?

(b) Calculate standard distribution: coefficient from deviation and its the following 7+2=9

	the least-								
80-90	70-80	60-70		40-50	30-40	20-30	10-20	0-10	Class
80-90 bas borths 4 sysups	tata adaishe a an (d)		19 10 2	25	20 mig x3	mortusm 15 , radw- (8)	supply 8 status	3	Frequency

(c) Distinguish between skewness kurtosis. and

UNIT-4

7. (a) What is probability? Explain the terms examples. 'equally likely events' with suitable 'event', 'mutually exclusive event' and 7701 2+2+2+2=8

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			(6)
/;;) 3 halls drawn are one of each	(i) 3 balls drawn are all white;	that—	(b) A bag contains 7 red, 12 4 green balls. What is the
one of each	white;		2 white and e probability

(u) o paus drawn a colours? 31/2+31/2=7

00 (a) State the addition and multiplication suitable example. theorem of probability. Explain with a 10

(b) What is mathematical expectation? Explain with an example.

UNIT-5

9. (a) Briefly explain the different components of time series. 00

(b) Fit a straight line trend by the leastsquare method and tabulate the trends of the following data:

> 10. (a) Define index number. Explain the main construction of index number. problems which are faced in the 2+5=7

(b) Construct index number of price from the following data by (i) Laspeyres', (ii) Paasche's and (iii) Fisher's methods: 3+3+2=8

D	C	В	A	Commodity	
2	4	5	2	Price	
19	14	10	00	Quantity	2020
2	CI	6	4	Price	
13	10	CJ	6	Quantity	2022

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