

2022/TDC/ODD/SEM/ ECOSEC-301T/457

TDC (CBCS) Odd Semester Exam., 2022

ECONOMICS

(3rd Semester)

Course No.: ECOSEC-301T

(Data Analysis)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer any the country and questlone .

1. Answer any three of the following questions:

 $1 \times 3 = 3$

(a) Define primary data.

rellection of

(b) What is sampling method of collection of data?

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- (c) What is purposive sampling?
- (d) Mention one demerit of census method.

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- Answer any one of the following questions: TOC (CBCS) Odd Somester Engns.
 - (a) Define simple random sampling with replacement (SRSWR).
 - (b) Mention two merits of sample survey.
- Answer any one of the following questions:
 - (a) Distinguish between census method and sampling method of collection of
 - (b) Write the features of a good

UNIT—II

- Answer any three of the following questions:
 - $1 \times 3 = 3$
 - Define the measures of central tendency. Debute of they dans
 - Mention one merit of arithmetic mean.
 - to be incultable to the special con-Define Karl Pearson's correlation (c) coefficient. What is purposed
 - Mention one relative measure of dispersion! To be much some necession.

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- 1/5 Aux Vist data.
- questionnaire. reference and the account to the

UNIT-III

- 7. Answer any three of the following questions:
 - (a) Define probability.
 - (b) What is mutually exclusive event?
 - Define independent event.
 - Define discrete random variable.

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5. Answer any one of the following questions:

(a) Distinguish between correlation and regression. The project in the project

- Mention two properties of Karl Pearson's correlation coefficient.
- 6. Answer any one of the following questions:
 - (a) Prove that $AM \ge GM \ge HM$.
 - Find the median of the data given below; i for a real or or or or or or or or

: 15-25 25-35 35-45 45-55 55-65 65-75 Frequency: 4 11 19 14 0



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- 8. Answer any one of the following questions:
 - (a) Mention two limitations of classical definition of probability.
 - (b) Write the addition theorem of probability in case of mutually exclusive events.
- 9. Answer any one of the following questions:
 - (a) Two cards are drawn at random from a full pack of 52 cards. Find the probability that (i) both are red cards and (ii) one is a heart and the other is a diamond.
 - (b) State and prove multiplicative theorem of probability.

Unit—IV

10. Answer any *three* of the following questions:

1×3=3

- (a) What is called a parameter?
- (b) Mention one component of time series data.
- (c) Define a statistic.
- (d) What is standard error?

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- 11. Answer any one of the following questions:
 - (a) What is secular trend in time series?
 - (b) Define confidence interval.
- 12. Answer any one of the following questions:
 - (a) Calculate 3-yearly moving average of the following:

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Year	Production (1000 times)
1968	- 1.41 P. 21 P. 181
1969	22-1
1970	23
1971	25
1972	24
1973 - 2 CLIVE	C.T. H. 18-422 . 1
1974	25
1975	26
1976	27
1977	26

(b) Distinguish between parameter and statistic with examples.

UNIT-V

13. Answer any three of the following questions:

1×3=3

5

- (a) Define price index number.
- (b) Give the Laspeyres' price index formula.

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£.	(c):	What is the base year in price index	.13
	, Par	number?	
	(d)	Mention one relative method of construction of index number.	
2	ia .	construction of index numbers	4. 3
14.	Ans	wer any <i>one</i> of the following questions :	2
w. F	A	Mention two uses of index number.	
	(b)	Why is Fisher's index called an 'ideal index' number?	
15.	Ans	wer any one of the following questions:	5
	(a)	Discuss the various steps and problems	
	1	involved in the construction of index	
April 1994		numbers.	
Î	(b)	Show that Laspeyres' formula does not	
	, Lucia	obey both time-reversal and factor- reversal tests of index numbers.	

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