

## 2019/TDC/ODD/SEM/COMHGE-301T/255

## TDC (CBCS) Odd Semester Exam., 2019

# COMMERCE more a street

# From the following table, calculate (a) unian

Course No.: COMHGE-301T

### ( Business Statistics )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

#### UNIT—I

1. Answer the following in short (any three):

 $1 \times 3 = 3$ 

- (a) Define the term 'variable'.
- (b) Mention two types of absolute measures of dispersion.
- deviation.
  - (d) Write the formula of harmonic mean.

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(Turn Over)

What is dispersion?

OR

- Write a short note on 'kurtosis'.
- 4. From the following table, calculate (a) mean, (b) standard deviation and (c) coefficient of 2+2+1=5 variation:

Monthly wages	No. of workers
0–10	(* √ 1 1 °
10–20	4
20–30	. 10
30–40	22
40.50	30
50-60	10
60–70	3

OR

5. From the following set of numbers, calculate the first four moments about (a) the mean and (b) the origin 4:

1, 3, 7, 9, 10

UNIT-II

- 6. Define the following in one sentence  $1 \times 3 = 3$ (any three):
  - (a) Mutually exclusive events

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	(b)	Equally likely events agoing united	.KI
	(c)	Events 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(d)	What is much a clind? semontul	13.
7.	One	e card is drawn from a standard pack of What is the chance that it is either a king	.ÞÏ
		queen?	2
	ation,	Calculate Karl Saman's correla  Octoberry of the Replace pared data	.8.
8.	Writ	te two properties of Poisson distribution.	2
9.	Brie	fly explain the Bayes theorem'.	5
		OR OR	
10.	A co getti head	in is tossed thrice. What is the chance of ing $(a)$ all heads and $(b)$ at least one $2\frac{1}{2}+2\frac{1}{2}$	<u>.</u> 2=5
		UNIT—III	
11.	Ansv	wer the following (any three): 1×3	3=3
	(a)	When are the variables said to be correlated?	
	(b)	Write the formula for rank correlation.	TI
	(c)	Write one utility of study of correlation.	
	(d)	Write one advantage of regression.	81

(3)

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ALL (N5.) COMPCE CON

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12. Mention various types of correlation. From the following data, calculate OR (a) Laspeyres' index and (b) Paasche's index: 21/2+21/2=5 13. What is graphic method? 2 Current year Base year What is scatter diagram? Rate per Rate per Qty Qty Item (units) unit (₹) (units) unit (₹) OR 6 40 30 Bread correlation 15. Calculate Karl Pearson's 5 45 50 4 Meat coefficient of the following paired data: 5 2 40 90 1 Tea X: 28 37 40 38 35 33 40 32 34 33 OR Y: 23 32 33 34 30 26 29 31 34 38 20. Distinguish between the regular irregular fluctuations in time series. 5 UNIT-IV 16. Answer the following (any three): 2=3×1=3 UNIT-V What is index number? 21. Answer the following (any three): Write one limitation of index number. Write one advantage of census method. Write one demerit of sampling method. Write the formula for Laspeyres' index number. What is lottery method? (c) (d) Write two components of time series. Name two types of sampling errors. 17. Write two uses of index number. 2 What is type I error? result map to the OR a still by and armW to OR 18. Write two importances of time series 223. What is type II error? analysis.

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24. Write notes on the following (any two):

t xahat s'erizaaat (d) bus z dati 'saryequ. 1 2½×2=5

- (a) Null hypothesis
- (b) F-test
- (c) Level of significance
- (d) Confidence interval

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(a) Write one save atage of census inclined

Name two types of sempling enurs

Write one demerts of sampling method.

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What is type I error?

What is type II error?