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SUB.CODE:	18UCO2C3 &	18UCOA2C3

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	May 1					



DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2020-2021 onwards)

UG DEGREE EXAMINATIONS APRIL – 2021 B.COM & B.COM(CA) - COMMERCE BUSINESS TOOLS FOR DECISION MAKING

	Time: 3 Hrs		N	Max.Marks: 75
		PART – A		
НОС	OSE THE CORRECT	ANSWER		(10X1=10)
1.	Diagrams and graphs	are tools of		
	a) Collection of Data	b) Analysis	c) Presentation	d) Summarization
2.	The general term of ar	Arithmetic Progression is d	enoted by	
	a) $t_n = a^* (n-1)d$	b) $t_n = a + (n-1)d$	c) $t_n = a/(n-1)d$	d) $t_n = a - (n-1)d$
3.	Which of the followin	g as a relative Measure of Di	spersion.	
	a) Mean	b) Median	c) Mode	d) Quartile Deviation
4.	What are the values li	es between 5 th & 25 th Perce	ntiles.	
	a) 4	b) 3.6	c) 3	d) 1.5
5.	Symmetrical Distribut	ion, the co-efficient of ske	wness	
	a) $\alpha_3 = 1$	b) $\alpha_3 = 3$	c) $\alpha_3 = 0$	d) $\alpha_3 = -1$
6.	The Correlation Co-e	fficient between the variable	es X and Y is P, the	correlation Co-efficient
	between X ² and Y ² is	S		
	a) P	b) P ²	c) 0	d) 1
7.	The term Regression v	vas introduced by		
	a) R.A.Fisher	b) Sir Francis Galton	c) Karl Pearson	d) None of the above
8.	Times Series analysis	helps		
	a) To compare the two	or more series	b) To know the beha	vior of business
	c) To make Prediction	S	d) All the above	
9.	Index Number are exp	ressed in		
	a) In Percentages	b) In Rations	c) In terms of	d) absolute value
10	. Factor reversal test Per	rmits the interchange of		
	a) base Periods	b) Price & Quantity	c) Weights	d) None of the above

ANSWER ALL THE QUESTIONS:-

 $(5 \times 7 = 35)$

11. a) Explain the Characteristics of a Good Table

(OR)

- b) Calculate the A.M, G.M & H.M of the following Quantities:3, 6,24, 48
- 12. a) Find the Mean Deviation ABOUT the mean for the following data.

18,20,12,14,19,22,26,16,19,24

(OR)

b) Calculate the Standard Deviation for the following data.

45,36,40,37,39,42,45,35,40,39

13. a) Find the Pearson's Co-efficient of Skewness for the following frequency Distribution.

Annual sales (in 000 RS.	No. of Items
0-20	20
20-40	50
40-60	59
60-80	30
80-100	25
100-120	16

(OR)

b) The following are the ranks obtained by 10 Students in Statistics & Mathematics

Statistics	:	1	2	3	4	5	6	7	8	9	10
Mathematics	:	1	4	2	5	3	9	7	10	6	8

To what extent is the knowledge of students in the two Subjects related?

14. a) The following table gives the age of cars of a certain make & annual Maintenance costs obtain the regression equation for costs related to age.

Age of cars (in years) : 2 4 6 8

Maintenance Costs (in hundreds of RS) : 10 20 25 30

(OR)

b) Calculate 5 yearly moving average of Number of Students Studying in a commerce college as Shown by the following figures.

Year	No. of Students	Year	No. of Students
1987	332	1992	405
1988	311	1993	410
1989	357	1994	427
1990	392	1995	405
1991	402	1996	438

15. a) On the basis of the following Information, Calculate the Fisher's Ideal Index number

	Base Year		Current	Year	
Commodity	Price	Quantity	Price	Quantity	
A	2	40	6	50	
В	4	50	8	40	
C	6	20	9	30	
D	8	10	6	20	
Е	10	10	5	20	
(OR)					

b) Calculate by the weighted Aggregate method the Index Number from the following Data.

Commodity	Base year	Current year	Weight
	(Price Per unit)	(Price Per unit)	
Rice	30	40	10
Wheat	20	30	5
Pulses	40	50	6
Oil	35	40	5
Milk	40	50	

PART - C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Find the Mean, Median and Mode for the following data & verify the empirical Relations.

CLASS	FREQUENCY
1-10	3
11-20	7
21-30	13
31-40	17
41-50	12
51-60	10
61-70	8
71-80	8.
81-90	6
91-100	6

17. Find the Quartile deviation and quartile co-efficient of Dispersion for the following Data.

Class		Frequency
0-5		3
5-10		5
10-15		8
15-20		12
20-30		34
30-40		46
40-50		28
50-60		14
60-70		10
	Total	160

18. Find the Co-efficient of correlation by Concurrent Deviation method of the following Data

X Y

19. Compute the appropriate regression equation from the following data.

X	Y
Independent Variable	Dependent Variable
2	18
4	12
5	10
6	8
8	7
11	5

20. Calculate the cost of living Index Number from the following data.

	Base year Price	Current year Price	Weights
Food	30	47	4
Fuel	8	12	2
Clothes	14	18	3
Rent	22	15	2
Miscellaneous	25	30	1