

S.No. 480

BATCH: 87 - 2016

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END OF SEMESTER EXAMINATIONS, APRIL / MAY -2018

BUSINESS STATISTICS

SUBJECT CODE: 14UBMAC2/14UAMAT1

MAJOR: B.COM/B.COM.CA

TIME : 3 HOURS

SEMESTER: III /IV
MAX.MARKS: 75**SECTION - A (10 X 1 = 10)****Answer ALL Questions:**

1. Define Secondary data.
2. What is meant by classification?
3. Give the formula for coefficient of Range.
4. Define Arithmetic mean.
5. Define the term positive correlation.
6. What do you mean by a regression equation?
7. Give the tests of consistency and adequacy of an Index number.
8. What are the three components in short term variations in Analysis of a time series?
9. Give the formula for coefficient of Quartile deviation.
10. What are the various algebraic methods used in the problems of interpolation & extrapolation?

SECTION - B (5 X 4 = 20)**Answer any FIVE Questions:**

11. Give the difference between Classification and Tabulation.
12. Calculate the mode.

Daily Wages in Rs.	50-60	60-70	70-80	80-90	90-100
No. of Labourers:	40	62	75	100	65

13. The following data were obtained while observing the life span of a few neon lights of a company. Calculate Standard Deviation.

Life Span (years):	4-6	6-8	8-10	10-12	12-14	Total
No. of Neon Lights:	10	17	32	21	20	100

14. For the data given below, calculate the rank correlation coefficient.

x:	21	36	42	37	25
y:	47	40	37	42	43

15. Calculate the cost of living index number from the following data.

Item	Base year price	Current year price	Weight
Food	39	47	4
Fuel	8	12	1
Clothing	14	18	3
House Rent	12	15	2
Miscellaneous	25	30	1

16. From the data given below, calculate the premium to be paid at the age 32.
17. Using three year moving average, determine the trend & short term fluctuation.

Year:	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Production:	21	22	23	25	24	22	25	26	27	26

18. Calculate the mean number of persons per house from the given data.

No. of persons per house:	2	3	4	5	6	Total
No. of houses:	10	25	30	25	10	100

SECTION - C (3 X 15 = 45)

Answer any THREE Questions:

19. Discuss about the scopes and uses of statistics.
20. For the data given below, give the Quartile deviation and coefficient of Quartile deviation.

x:	351-500	501-650	651-800	801-950	951-1100
f:	48	189	88	47	28

21. Find the rank correlation coefficient for percentage of marks secured by a group of 8 students in economics & statistics.

Marks in Economics:	50	60	65	70	75	40	70	80
Marks in Statistics:	80	71	60	75	90	82	70	50

22. Compute (i) Laspeyre's index number (ii) Paasche's index number (iii) Fisher's index number

Item	Price		Quantity	
	Base Year	Current Year	Base Year	Current Year
A	6	10	50	50
B	2	2	100	120
C	4	6	60	60
D	10	12	30	25

23. By using Lagrange's formula, determine the percentage of criminals under 35 years of age.

Age	Percentage of Criminals
Under 25 Years	52.0
Under 30 Years	67.3
Under 40 Years	84.1
Under 50 Years	94.4