



K21U 6587

Reg. No. : .....

Name : .....



I Semester B.B.A./B.B.A.(T.T.M.)/B.B.A.(R.T.M.) Degree  
(C.B.C.S.S. – Supplementary) Examination, November 2021  
(2015-2018 Admissions)  
Complementary Course  
1C01BBA/BBA(TTM)/BBA(RTM) : BUSINESS STATISTICS

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer the 4 questions. **Each** question carries  $\frac{1}{2}$  marks.

1. What is an attribute ?
2. What is arithmetic mean ?
3. What is P-Value ?
4. What do you mean by seasonal effects ?

SECTION – B

Answer **any 4** questions. **Each** question carries **1** mark.

5. What is sampling ? What are the methods of sampling ?
6. What are the types of measures of central tendency ?
7. What are the mathematical methods of measuring correlation between two variables ?
8. Which are the major components of time series ?
9. What are the methods of collecting data ?
10. Explain secular trend.

P.T.O.



## SECTION – C

Answer **any six** questions. **Each** question carries **3** marks.

11. Find the arithmetic mean of the following numbers :

5, 8, 10, 15, 24 and 28

12. Find the median of the following series.

77, 73, 72, 70, 75, 79, 78

13. Draw a histogram to represent the following distribution :

<b>Weight</b>	: 90 – 100	100 – 110	110 – 120	120 – 130	130 – 140
<b>No. of Students</b>	: 500	700	300	400	100

14. Find Karl Pearson's coefficient of correlation from the following :

X : 2 3 4 5 6 7 8

Y : 4 5 6 8 9 7 10

15. Find the coefficient of correlation from the following data :

X : 1 2 3 4 5 6 7

Y : 6 8 11 9 12 10 14

16. Determine median from the following distribution :

**Wages** : 20 21 22 23 24 25 26 27 28

**No. of**

**Workers** : 8 10 11 16 20 25 19 9 6

17. From the following find three yearly weighted moving average taking 1, 2, 3 as weights :

**Years** : 1 2 3 4 5 6 7

**Sales (lakhs)** : 1 2 3 4 5 6 7

18. What are the bases for classification of data ?



SECTION – D

Answer **any two** questions. **Each** question carries **8** marks.

19. What are the various types of graphs used for presenting a frequency distribution ? Explain its various methods that are used for graphical representation of frequency distribution.

20. The following data relate to annual production in a fertilizer factory (in thousand tones) :

<b>Year</b>	:	1977	1978	1979	1980	1981	1982	1983
<b>Production</b>	:	70	75	90	91	95	98	100

- i) Fit a linear trend by the method of least squares and estimate the trend values.
- ii) Convert the annual trend equation to monthly trend equation.

21. Determine Q. D. and Coeff. of Q. D. for the following data :

<b>Weight</b>	:	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54
<b>No. of boys</b>	:	5	11	26	10	8

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