



Reg. No. : .....

Name : .....

I Semester B.B.A/B.B.A(RTM)/B.B.A(TTM). Degree  
(CBCSS-Supplementary/Improvement) Examination, November - 2019  
(2014-2018 Admissions)  
Complementary Course

1C01BBA(TTM)/BBA/BBA(RTM) : BUSINESS STATISTICS

Time : 3 Hours

Max. Marks :40

## SECTION - A

- I. Answer **all** questions. Each carries  $\frac{1}{2}$  mark. (4 $\times$  $\frac{1}{2}$ =2)
- 1) What do you mean by multiple bar diagram?
  - 2) What is Kurtosis?
  - 3) What is Statistics?
  - 4) Write a brief description about variable?

## SECTION - B

- II. Answer any **four** questions. Each carries 1 mark. (4 $\times$ 1=4)
- 5) Write a short note on Lorenz curve?
  - 6) Write any two limitations of diagrams?
  - 7) In a certain frequency distribution, mean=30kg, median= 27kg find mode?
  - 8) Give a brief description about concurrent deviation method of correlation?
  - 9) What are the different sources of secondary data?
  - 10) What do you mean by positively skewed distribution?

P.T.O.



## SECTION -C

III. Answer any **six** questions. Each carries **three** marks. (6×3=18)

- 11) What are the functions of statistics?  
 12) What are the general rules for constructing diagrams?  
 13) Draw a multiple bar diagram from the following data:

Year	Sales (RS'000)	Gross Profit (RS'000)	Net profit (RS'000)
2014	120	40	20
2015	135	45	30
2016	140	55	35
2017	150	60	40

- 14) Obtain the value of median from the following data of the monthly income of 10 employees of a company in Rs:

14391, 15384, 25591, 15407, 16672, 26522, 16777, 26753, 27850, 37490.

- 15) Write a short note about importance of correlation in business and economic activity.  
 16) Calculate harmonic mean for the given below:

Marks	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Frequencies	2	3	11	20	32	25	7

- 17) From the following data of values of X and Y, find the regression equation of Y on X.

X	2	3	4	5	6
Y	3	5	4	8	9

- 18) Compare mean, median and mode?



## SECTION - D

IV. Answer any **two** questions. Each question carries **8** marks. (2×8=16)

- 19) The following table gives the indices of industrial production of registered unemployed ( in hundred thousands). Calculate the value of the coefficient of correlation.

Year	2009	2010	2011	2012	2013	2014	2015	2016
Index of production	100	102	104	107	105	112	103	99
Unemployed	15	12	13	11	12	12	19	26

- 20) Define statistics and discuss various applications and importance of statistics.
- 21) Find standard deviation from the following data. Also find variance and coefficient of variation.

Size	0-2	2-4	4-6	6-8	8-10	10-12
Frequency	2	4	6	4	2	6