K21U 6744

Reg. No. : .....

Name : .....

I Semester B.B.A./B.B.A. (R.T.M.) Degree (C.B.C.S.S. – O.B.E. – Regular/ Supplementary/Improvement) Examination, November 2021
(2019 Admission Onwards)
Complementary Elective Course
1C01BBA/BBA(RTM) : STATISTICS FOR BUSINESS DECISIONS

Time : 3 Hours Max. Marks : 40

PART – A

Answer **all** questions. **Each** question carries **1** mark :

1. What is secondary data ?
2. What is meant by census ?
3. What is classification ?
4. What is time series ?
5. Define correlation.
6. What is trend ? **(6×1=6)**

PART – B

Answer **any 6** questions. **Each** question carries **2** marks :

7. Define statistics.
8. List out the components of time series.
9. What is whole sale price index number ?
10. List out two uses of consumer price index.
11. What is chain base index numbers ?
12. What is probable error of coefficient of correlation ?
13. What is perfect correlation ?
14. What is simple and multiple regression ? **(6×2=12)**

P.T.O.

PART – C

Answer **any 4** questions. **Each** question carries **3** marks :

15. List out the objectives of classification.

16. Which are the functions of statistics ?

17. 'Statistics is like clay of which you can make God or Devil as you please.' Comment on the statement.

18. Explain the method of moving average.

19. What are the steps involved in the construction of consumer price index numbers ?

20. Calculate the coefficient of correlation between x and y from the following data :

	x	y
No. of pairs of observation	15	15
Standard deviation	3.01	3.03
Covariance between x and y	8.13	

(4×3=12)

PART – D

Answer **any 2** questions. **Each** question carries **5** marks :

21. Define index number. Explain various steps in the construction of index numbers.

22. What is meant by diagrams ? Discuss various types of diagrams used in statistics.

23. Find Karl Pearson's coefficient of correlation between heights and weights of 10 students and comment.

Heights (inches) :	62	72	78	58	65	70	66	63	60	72
Weights (kgs.) :	50	65	63	50	54	60	61	55	54	65

24. Work out the trend values by 4 yearly moving average method for the following data and plot the given values and trend values on a graph :

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production	80	90	92	83	87	96	100	110	105	118

(2×5=10)