Reg. No. : ....

Name : ....

I Semester B.B.A/B.B.A(RTM) Degree (CBCSS(OBE) – Regular) Examination, November – 2019
(2019 Admission)
COMPLEMENTARY ELECTIVE COURSE
1C 01BBA/BBA(RTM) : STATISTICS FOR BUSINESS DECISIONS

Time : 3 Hours

Max. Marks : 40

PART - A

Answer **All** questions. Each question carries1 mark. (6×1=6)

1. What is secondary data?

2. What is pie diagram?

3. Define time series.

4. State any two causes of seasonal variations.

5. What is meant by semi average?

6. Define index number.

PART - B

Answer any **Six** questions. Each question carries **2 marks**. (6×2=12)

7. Discuss the general rules for constructing diagrams.

8. State any four characteristics of classification.

9. What are the objectives of time series analysis?

10. Discuss the uses of cyclical variations.

11. What are the components of time series?

12. Discuss the uses of index numbers.

13. What is Consumer Price Index? State its uses.

14. What is regression?

P.T.O.

PART - C

Answer any **Four** questions. Each question carries **3** marks. (4×3=12)

15. Discuss the scope of statistics.

16. What are the different methods for drawing graphs for frequency distribution?

17. Explain the problems in the construction of index numbers.

18. Calculate 3 yearly moving averages from the following data. (Rs. in thousands)

Year :	2008	2009	2010	2011	2012	2013
Sales :	55	47	59	151	79	36
Year :	2014	2015	2016	2017	2018	
Sales :	45	72	83	89	102	

19. From the following information calculate consumer price index number using family budget method.

Commodities	Weight	Price per unit in 2015(Rs.)	Price per unit in 2018(Rs.)
A	50	15	25
B	60	17	28
C	35	8	15
D	40	5	9
E	20	20	22
F	10	6	5

20. Following are the details of 10 participants in an interview. They are in different age groups. The marks scored by them are ranked according to their age which are stated as below. Find, out rank correlation.

Rank (age) :	1	2	3	4	5	6	7	8	9	10
Rank (mark) :	3	4	1	5	10	8	7	2	6	9

PART-D

Answer any **Two** questions. Each question carries **5** marks. **(2×5=10)**

21. Define classification and tabulation. Discuss the various methods of classification of data.

22. What is trend? What are the different methods of studying secular trend?

23. Calculate co-efficient of correlation between rainfall and agricultural production through Karl Pearson's co-efficient of correlation method.

Rainfall	:	22	24	26	28	30	32	34
Production	:	40	36	25	50	48	46	38

24. Calculate Index Numbers from the following data by:

(i)   Laspeyre's

(ii) Paasche's

(iii) Bowley's and

(iv) Fisher's method

Commodity	Price (Base)	Quantity (Base)	Price (Current)	Quantity (Current)
X	8	5	10	11
Y	8.5	6	9	9
Z	9	4	12	6

———————————