Reg. No ..... Name **22U148**

B B A DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 : INTEGRATED MARKETING AND NEW MEDIA

COURSE : **19U1CRBBA3 : BUSINESS STATISTICS**

(For Regular – 2022 Admission and Improvement / Supplementary - 2021/2020 Admissions)

Time : Three Hours Max. Marks: 60

PART A

Answer All (1 mark each)

1. What is co-effecient of variation?
2. Explain the situation when coefficient of correlation is greater than zero
3. What is bimodel series?
4. What is range?
5. What is mean?
6. What is statistics?
7. What is individual series?
8. What is seasonal variation?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Write notes on coeffecient of range
10. What do you mean by rank correlation?
11. Explain the scope of statistics in business
12. Define statistics
13. Identify the disadvantages of measures of central tendancy.
14. What is assumed mean?
15. You are given: a is 0.28 and b is 7.5 Calculate the values of Y if X is 17 and 23
16. What are the merits and demerits of range?

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Calculate mean from the following information

Marks (₹)	10-19	20-29	30-39	40-49	50-59	60-69
No. of Students	6	4	14	6	8	12

18. Explain various methods for calculating correlation
19. Calculate weighted arithmetic mean

No: of offices	10	15	20	25	30	35	40
No: of computers per office	4	5	12	14	18	20	22

20. Marks 10 20 30 40 50 60 70 80
No. of Students 3 5 8 7 6 4 2 5
Calculate quartile deviation and its coeffecient

21. What are the features of statistics?

22. Calculate 4- yearly moving average

1991	1992	1993	1994	1995	1996	1997	1998
36	43	43	34	44	54	34	24

(5 x 4 = 20)

PART D
Answer any 2 (10 marks each)

23. What is dispersion? What are the different measures of dispersion? Explain various methods of calculating dispersion

24. Calculate 2-yearly, 4-yearly and 6-yearly moving average trend for the time series given below.

Year : 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

Quantity : 36 28 20 31 27 26 28 31 26 25 34 32

25. The following is the distribution of the ages of new employees joined at a factory.

AGE	NO: OF EMPLOYEES
20-29	7
30-39	21
40-49	4
50-59	2
60-69	1

(a) Obtain the class boundaries and class marks of the class intervals.
(b) What is the upper class limit of the class 30-39?
(c) What is the lower class boundary of the class 50-59?
(d) What is the class mark of the class 40-49?

26. Calculate the arithmetic mean by step deviation method:

Profits per shop	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50-60
No. of shops	12	18	27	20	17	6

(10 x 2 = 20)