

B. B. A. DEGREE END SEMESTER EXAMINATION - OCT 2020 : FEBRUARY 2021**SEMESTER 1 : INTEGRATED MARKETING AND NEW MEDIA (CORE COURSE)****COURSE : 20U1CRBBA3 : BUSINESS STATISTICS***(For Regular - 2020 Admission)*

Time : Three Hours

Max. Marks: 60

PART A**Answer All (1 mark each)**

1. What is a sample?
2. What is mid value?
3. What is bimodal series?
4. Calculate Q3 of 16, 14, 26, 24, 20, 36. 22.42
5. What is absolute measure of dispersion?
6. What is coefficient of range?
7. What is a time series component?
8. What is positive correlation?

(1 x 8 = 8)**PART B****Answer any 6 (2 marks each)**

9. Define statistics
10. What is geographical Classification?
11. Calculate Mean and Median from the following

Daily wages in (Rs.)	5	10	15	20	25	30	35	40	45
No. of persons	20	43	75	67	72	45	39	9	8
12. What is grouping table?
13. The weights of 5 ear-heads of sorghum are 100,102,118,124,126gms. Find the standard deviation
14. Calculate range
23, 81, 20, 19, 17, 14, 30, 32, 26, 23, 27 and 38
15. Write note on moving average
16. What is nonlinear correlation?

(2 x 6 = 12)**PART C****Answer any 4 (5 marks each)**

17. Explain the importance of statistics in different fields
18. Compute weighted arithmetic mean

Number of TV's per Household Number of Households

1	73
2	378
3	459
4	90

19. Calculate Mean

Marks	10	15	20	25	30	35	40	45	50
No. of Students	6	4	14	6	8	12	7	3	10

20. Marks	10	12	16	20	25	30	35	40
No. of Students	12	5	3	7	8	6	4	5

Calculate quartile deviation and its coefficient

21. What do you mean by components of time series?
 22. Explain various methods for calculating correlation

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Define Statistics. Explain various features of statistics. What are the major limitations of Statistics?
 24. Calculate Median from the following

Marks More than	0	10	20	30	40	50	60
No: of Students	60	52	42	30	14	6	4

25. The frequency distribution of seed yield of 50 sesamum plants are given below. Find the standard deviation.

Seed yield in gms	2.5-3.5	3.5-4.5	4.5-5.5	5.5-6.5	6.5-7.5
No of plants	4	6	15	15	10

26. Fit a straight line trend to the following series by the method of least squares

	Years		:	2010	2011	2012	2013	2014
2015	2016	2018						
Production of Rice(in 1000 tons) :			3	5	8	7	10	
14	15	18						

(10 x 2 = 20)