

Reg. No

Name

BBA DEGREE END SEMESTER EXAMINATION - MARCH 2020**SEMESTER 2 : INTEGRATED MARKETING AND NEW MEDIA****COURSE : 16U2CRBBA5 : BUSINESS STATISTICS***(For Regular - 2019 Admission & Improvement /Supplementary - 2018/2017/2016 Admissions)*

Time : Three Hours

Max. Marks: 75

Section A**Answer all the Following (1 mark each)**

1. What is population?
2. What is cumulative frequency?
3. Calculate median of 16, 14, 26, 24, 20, 36. 22.42
4. What is absolute measure of dispersion?
5. What is cyclic variation?
6. What is negative correlation?

(1 x 6 = 6)

Section B**Answer any 7 (2 marks each)**

7. What is multiple classification?
8. Write note on frequency distribution
9. 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
10. A football team keep records of the number of goals it scores per match during a season. The list is shown below
 Find the mean number of goals per match

No : of Goals	Frequency
0	8
1	10
2	12
3	3
4	5
5	2

11. What are the merits and demerits of range?
12. Write notes on quartile deviation
13. What is trend?
14. write notes on trend value
15. What are the uses of time series?
16. What is nonlinear correlation?

(2 x 7 = 14)

Section C

Answer any 5 (5 marks each)

17. 88 23 27 28 86 96 94 93 86 99 82 24 24 55 88 99 55 86 82 36 96 39 26 54 87 10
12 48 27 26 29 100 59 83 84 48 104 46 30 29 40 101 60 89 46 49 106 33 36 30
104 36 37 40 40 106 72 94 50 60 24 39 49 46 66 107 76 96 46 67 26 78 50 44 43
29 67 56 99 93 48 80 102 32 51 49 50 36 68 70 90 83 46 79 99 103 56 84 46 40
Prepare a frequency distribution with 10 as class intervals
18. Calculate median from the following
- | | | | | | | | |
|-----------------|------|-------|-------|-------|-------|-------|--------|
| Marks | 0-10 | 10-20 | 20-40 | 40-70 | 70-80 | 80-90 | 90-100 |
| No: of Students | 2 | 6 | 19 | 17 | 10 | 6 | 10 |
19. Calculate weighted arithmetic mean
- | | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|
| No: of offices | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| No: of computers per office | 2 | 6 | 19 | 17 | 10 | 12 | 8 |
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 coefficient
21. 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
22. What are the uses of time series analysis?
23. Explain the procedure in computing 3 yearly moving average
24. Explain the relevance of the method of least square in regression analysis

(5 x 5 = 25)

Section D

Answer any 2 (15 marks each)

25. 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 |
26. From the data given below, calculate standard deviation and coefficient of variation
- | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|
| Class | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
| Frequency | 10 | 18 | 16 | 26 | 12 | 16 |
27. 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 |
28. Following are the mark of two students in English and Mathematics.
- | | | | | | | | | | | |
|----------------------|----|----|----|----|----|----|----|----|----|----|
| Marks in English | 56 | 75 | 45 | 71 | 61 | 64 | 58 | 80 | 76 | 61 |
| Marks in Mathematics | 66 | 70 | 40 | 60 | 65 | 56 | 59 | 77 | 67 | 63 |
- Compute Spearman rank correlation

(15 x 2 = 30)