Reg. No	Name	18U237	
B. B. A. DEGREE END SEMESTER EXAMINATION – MARCH/APRIL 2018			
SEMESTER – 2: BACHELOR OF BUSINESS ADMINISTRATION (BBA)			

(Common for Regular 2017 / Supplementary - Improvement 2016 Admission)

COURSE: 16U2CRBBA7: BUSINESS STATISTICS

Time: Three Hours Max. Marks: 75

SECTION - A

Answer all questions. Each question carries 1 mark

- 1. Define statistics
- 2. What do you mean by primary data?
- 3. What is cumulative frequency distribution?
- 4. What is arithmetic mean?
- 5. What is Range

6. Define time series.

 $(1 \times 6 = 6)$

SECTION - B

Answer any **seven** questions. Each question carries **2** marks

- 7. State the steps in conducting a survey?
- 8. What do you mean by classification of data?
- 9. Draw a blank table to show the number of candidates, sex wise, appearing in the 1st, 2nd and 3rd year examinations of a University in the faculties of Art, Science and Commerce in a certain year.
- 10. Average rain fall of a city from Monday to Saturday is 0.3 inch. Due to heavy rain fall on Sunday, the average rain fall for the week increase to 0.5 inch. What was the rain fall on Sunday?
- 11. What you mean by 'Central Tendency'?
- 12. Calculate the mean and median from the data given below.

Daily wages (in Rs.) 5 10 15 20 25 30 35 40 45 75 20 43 67 72 45 39 9 8 No. of persons

- 13. What are the merits of quartile deviation
- 14. What is coefficient of mean deviation?
- 15. What is the standard deviation?
- 16. Mention two uses of correlation in business.

 $(2 \times 7 = 14)$

SECTION - C

Answer any **five** questions. Each question carries **5** marks.

- 17. What are the merits and demerits of Karl Pearson's coefficient of correlation?
- 18. What are the uses of Regression Analysis?
- 19. What is time series? Discuss the uses of time series.
- 20. Explain the functions of Statistics.

21. The marks obtained by 20 students in Commerce and Economics are given below. The first figure in brackets indicates the marks in Commerce and the second marks in Economics. (14,12), (0,2), (1,5), (7,3), (15,9), (2,8), (12,18) (9,11), (5,3), (17,13) (19,18), (11,7), (10,13), (13,16), (16,14), (6,10), (4,1), (11,14), (8,3), (9,15)

Prepare a two way table taking the magnitude of each class intervals as 4 marks. The first being equal to 0 and less than 4.

22. Calculate the arithmetic average by direct method and short cut method from the following data.

В C Ε F J Family Α D G Н ı Weekly income 850 700 100 750 5000 80 420 2500 400 360

23. From the data given below, calculate quartile deviation and its coefficient.

Class 15-20 20-25 25-30 30-35 35-40 40-45 Frequency 12 40 86 60 52 30

24. Calculate coefficient of correlation from the following data

X: 0.1 0.2 0.3 0.4 0.5 0.6 0.7 Y: 30,000 50,000 60,000 80,000 1,00,000 1,10,000 1,30,000

 $(5 \times 5 = 25)$

SECTION - D

Answer any **two** questions. Each question carries **15** marks

- 25. Distinguish between classification and tabulation. Mention the requisites of a good statistical table.
- 26. Calculate simple and weighted arithmetic averages from the following data and comment on them.

Designation	Weekly salaries	Strength of cadre
	(in Rs)	
Class I Officers	1500	10
Class II Officers	800	20
Subordinate Staff	500	70
Clerical staff	250	100
Lower Staff	100	150

- 27. Describe the ratio to moving average and the ratio to trend methods of estimating seasonal indices.
- 28. Obtain the equations of the two lines of regression for the data given below.

X: 3 9 4 5 6 7 8 Υ: 9 10 12 11 13 14 16 15

 $(15 \times 2 = 30)$
