



Term Evaluation (Even) Semester Examination March 2025

Roll no.....

BBA
Semester: II
BUSINESS STATISTICS
BBA 203
Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1.

(10 Marks)

- a. The mean annual salary of employee of a company is Rs 30000. The mean annual salary of male and female employee is Rs 35000 and Rs 23000, respectively. Find out the percentage of male and female employee working in the company. CO-2

OR

- b. A survey of 370 students from Commerce faculty and 130 students from science faculty revealed that 180 students were studying for only CA examination, 140 for only costing examination and 80 for both CA and Costing exams. The rest had opted for part time management courses. Of those studying costing only 13 were girls and 90boys belonged to Commerce faculty. Out of 80studying for both CA and Costing, 72 were from Commerce faculty amongst whom 70 were boys. Amongst those who opted for part time Management courses, 50 boys were from science faculty and 30 boys and 10girls from commerce faculty. In all there were 110 boys in science faculty. Present the above information in tabular form, showing the breakup of student (girls and boys taken together) for Commerce and Science faculties by different courses. CO-1

Q2.

(10 Marks)

- a. A Professor, teaching in a business school has decided to award the final grades (marks), based on attendance, term paper and midterm test. The data is given below: CO-4

Name	Attendance	Term paper	Midterm test
A	22	25	42
B	20	23	40
C	19	16	37
D	24	15	25
E	25	18	30
F	18	20	32
G	61	23	45
H	21	19	38
I	25	15	30
J	23	17	27

He has assigned 20% for attendance, 30% for term paper and 50% for the mid-term test. Calculate the final marks for each of the ten students and the average final marks, taking the group as whole.

OR

- b. An economy has grown at 5% in the first year, 6% in the second year, 4.5% in the third year, 3% in the fourth year and 7.5% in the fifth year. What is the average rate of growth of the economy during the five years? CO-3



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Q3. (10 Marks)

- a. List down the advantage and Limitation of Graph and Diagram. CO-1

OR

- b. The distribution of weights of 152 students is as follows: CO-2

Weight in Kg	Frequency
30-40	18
40-50	38
50-60	46
60-70	27
70-80	15
80-90	8

Calculate Q_1 , Median, D_7 and P_{10} .

Q4. (10 Marks)

- a. For a distribution, Bowley's coefficient of skewness is -0.56, $Q_1=16.4$ and median =24.2. What is the coefficient of Quartile deviation. CO-3

OR

- b. Explain the measures of Dispersion. CO-1

Q5. (10 Marks)

- a. Given the following data, calculate Karl Pearson's coefficient of skewness: CO-2
 $\sum x = 452$, $\sum x^2 = 24270$, Mode=43.7 and $N=10$.

OR

- b. State the advantage of a diagrammatic presentation of statistical data. Describe briefly with suitable examples, a single bar diagram, a multiple bar diagram and a component bar diagram. CO-3