



# AJEENKYA

## D Y PATIL UNIVERSITY

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### End Term Examinations (December 2018)

**School: School of Management**

**Program: BBA-IB**

**Course: Business Statistics**

**Course Code: COM104**

**Semester: I**

**Max Marks: 30**

**Duration (mins): 90**

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#### Instructions:

1. Solve all the questions in Section A. Each question carries 2 Marks.
2. Solve any two questions from Section B. Each question carries 5 Marks.
3. Solve any one question from Section C. Each question carries 10 Marks.

#### Section – A

#### Multiple Choice Questions. Choose the correct answer. (Solve all Five)

Q1. Which of the following is not a type of bar chart?

- a. Multiple      b. Percentage      c. Subdivided      d. Ogive

Q2. Which of the following is not an ordinal data?

- a. Rank of a student in a class      b. Pin code of a city  
c. Rating of a drama      d. Grade of a restaurant

Q3. Which of the following statements is not true?

- a. Statistics enlarges physical vision.      b. Statistics helps in estimation.  
c. Statistics quantifies uncertainty      d. Statistics discovers past patterns.

Q4. The maximum value of Correlation is

- a. 2      b. 1.5      c. 1      d. 0

Q5. Graph of variables having linear relation will be

- a. Curved      b. Hyperbola      c. Straight line      d. None of the above

## Section – B

### Short Answer Questions: (Solve any Two)

Q6. The mean height of 25 male workers in a factory is 61 cms, and the mean height of 35 female workers in the same factory is 58 cms. Find the combined mean height of 60 workers in the factory. (5)

Q7. Calculate median from the following data: (5)

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No. of Students	6	12	17	30	10	10	8	5	2

Q8. From the following marks of the 12 students, compute the quartile deviation and its coefficient. (5)

Sl. No.	1	2	3	4	5	6	7	8	9	10	11	12
Marks	25	30	37	43	48	54	61	67	72	80	84	89

Q9. Calculate the standard deviation from the data given below: (5)

Size	10	20	30	40	50	60	70
Frequency	6	8	16	15	33	11	12

## Section – C

### Short Answer Questions: (Solve any One)

Q10. Find out the coefficient of correlation between X and Y by the method of rank differences:

X	15	17	14	13	11	12	16	18	10	9
Y	18	12	4	6	7	9	3	10	2	5

Q11. Calculate Karl Pearson's Coefficient of Correlation from the following data: (10)

X	100	200	300	400	500	600
Y	120	130	140	150	160	170

Q12. What is Data? Explain the four types of classification of data. (10)

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