



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School: School of Management

Program: Banking and Financial Services

Course: Business Statistics – I

Course Code: COM502

Semester: I

Max Marks: 100

Duration (mins) : 150

Note: -

- 1) Solve any 1 Question from Q1 and Q2 for 15 Marks
- 2) Solve any 4 questions from Q3 to Q7 for 15 marks each
- 3) Q No 8 Compulsory

Q1. Explain the concept of central tendency. Each method need to be explained for measuring central tendency with 2 merits and 2 demerits. Formula must be explained for all type of data.

Or

Q2. Explain the concept of correlation and regression with application in business.

Q3. Following distribution of marks of 100 students in the examination as following:

Marks Obtained (Less then)	10	20	30	40	50	60	70	80	90
No. of students	4	6	24	46	67	86	96	99	100

Draw Histogram & Less than and more than give.

Q4a. Calculate MD Across Median & S.D.

Wages (Rs)	410	340	300	450	500
Frequency	8	3	2	5	2

Q.4b. For given data below:

Class	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	9	8	11	2	5	8	2

1. Calculate Quartile Deviation and co-efficient of Quartile deviation
2. Calculate SD and Variance

Q5 For the following data

X	18	24	28	36	18	23
Y	8	14	16	08	30	30

1. Calculate the coefficient of correlation
2. Predict Y if $x=43$

Q6 Solve following:

23, 23, 20, 20, 34, 21, 26, 28, 24, 10, 15, 34, 29, 12, 27, 23, 28, 24, 24, 25, 33, 38, 35, 23, 29, 20, 17, 30, 27, 11

1. Calculate Mean, Mode and Median
2. Calculate Quartile Range and SD

Q7 A sample of 1000 students were recorded. The mean of population was 56 & S.D was

12(Refer Normal Distributed Z table).

- a. Calculate the no. of respondents score between 50 to 70
- b. Calculate the no. of respondents score more than 35

Q8 Short Note on any five and 5marks each (Compulsory)

1. Application of Statistics in Business
2. Define the Term Sampling & Censes Study
3. Explain the Concept of Normal Distribution Curve
4. Discrete variable and Continues variable
5. Probability sampling and Non-Probability sampling
6. Parameters and Statistics
7. Descriptive statistics and Inferential statistics
