



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School : School of Management

Program: B.Com-Hons.

Course: Business Statistics

Course Code: COM104

Semester: I

Max Marks: 50

Duration (mins): 120 minutes

Q 1) A) The following data relate to the score obtained by 9 salesmen of a company in an intelligence test and their weekly sales:

Salesmen Intelligence:	A	B	C	D	E	F	G	H	I
Test Score :	50	60	50	60	80	50	80	40	70
Weekly sales :	30	60	40	50	60	30	70	50	60

a) Obtain the regression equation of sales on intelligence test scores of the salesmen.

b) If the Intelligence test score of a salesman is 65, What would be his expected weekly sales?

(15 marks)

Or

B) What do you mean by sampling? Explain the various techniques of sampling. (3+12=15 marks)

Q 2) A) Find out the correlation between the two variable X and Y by using deviations taken from mean. Also provide the necessary comment on their outcome. (10 marks)

X :	10	6	9	10	12	13	11	9
Y :	9	4	6	9	11	13	8	4

Or

B) What do you mean by correlation? Explain the various types of correlation. (3+7=10 marks)

Q 3) A) From the following data compute mean: (10 marks)

Marks:	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students:	5	10	25	30	20	10

Or

B) Write short notes on the following:

i) regression analysis (5 marks)

ii) limitations of statistics (5 marks)

Q 4) A) Calculate mode from the following: (15 marks)

Marks: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100

No. of Students: 3 5 7 10 12 15 12 6 2 8

Or

B) i) Find the missing frequency from the following data: (10 marks)

Marks: 0-10 10-20 20-30 30-40 40-50 50-60

No. of Students: 5 15 20 ---- 20 10

The arithmetic mean is 34 marks.

ii) What are the requisites of a good table. (5 marks)