

Enrollment ID: _____

NAVRACHANA UNIVERSITY
SBL-BCA PROGRAMME
END SEMESTER EXAMINATION NOV-17
S.Y B.C.A Semester – 3

Subject: STATISTICS

Course Code: MA105

Date: 23/11/17

Total Marks = 40

Time: 1.00PM TO 3.00PM

Instructions:

- Write each answer on a new page.
- Use of calculator is permitted

Q1: Do as directed. (All are compulsory)

----(20 M)

1) Calculate the arithmetic mean for the following frequency distribution by

Step deviation method

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	6	5	8	15	7	6	3

2) Calculate the Range and coefficient of Range of A's monthly earnings for a year

Month	Monthly earnings (in '00 Rs)
1	139
2	150
3	151
4	152
5	157
6	158
7	173
8	175

3) Calculate the mode of the following distribution.

Annual sales(in thousands)	Frequency
Less than 10	4
Less than 20	20
Less than 30	35
Less than 40	55
Less than 50	62
Less than 60	67

4) Find

(a) Inter-quartile range

(b) Quartile deviation for the following data.

Class interval	0-15	15-30	30-45	45-60	60-75	75-90	90-105
f	8	26	30	45	20	17	4

Q2: Do as directed.

----(20 M)

- 1) Calculate the mean, median and mode for the following data after converting this data into continuous class table.(10 MARKS)

Weight in kgs	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
No. of students	3	5	12	17	14	6	3	1

- 2) Calculate the mean deviation from median of the following distribution.(10 MARKS)

Class interval	50-100	100-150	150-200	200-250	250-300	300-350
f	7	18	25	31	15	4