Student ID:

NAVRACHANA UNIVERSITY SLSE, BSc PROGRAME END SEMESTER EXAMINATION

1ST Year, Semester -2 Academic Year 2016 – 2017

Subject: FOUNDATION COURSE IN MATHEMATICS-II

Course Code: MA117

Marks: 40

Time: 10:30AM - 12:30PM

Date: 11/05/2017

Instructions:

→ Write answers in answer book only.

Q-1: Answer the following questions:

The following table gives the frequency distribution of times(to the nearest hour) that 90 fans spent waiting in line to buy tickets to a rock concert.

Waiting Time (hours)	Frequency
0 to 6	5
7 to 13	27
14 to 20	30
21 to 27	20
28 to 34	8

Answer the	following qu	estions from the table:	(Each of 1 Mark)		10X1=10
(1) The class	sses in the ta	ble are	(2) The class	ss width is	
(a)6	(b) 5	(c)90	(a)6	(b)7	(c)34
(3)The mid	point of third	d class is	(4) Lower bo	undary of th	e second class is
(a) 16.5	(b)17	(c)17.5	(a)6.5	(b)7	(c)7.5
(5)Upper lin	mit of the sec	cond class is	(6) The samp	ole size is	
(a) 12.5	(b)13	(c)13.5	(a)5	(b)90	(c)11
(7)Relative	frequency of	the second class is	(8) Relative f	frequency of	the fifth class is
(a) 0.22	(b)0.41	(c)0.30	(a)8.89	% (b)22.22	2% (c)33.33%
(9)Highest	frequency of	given data is	(10) Angle of	f Relative fre	quency of the 4 th class
(a) 0.33	(b)5.56	(c)0.30	(a)79.9	9° (b)90°	(c)108°

1. The following data give the number of car thefts that occurred in a city during the past 12 days.

6 3 7 11 4 3 8 7 2 6 9 15

Then fill in the blank

- (i) Mean is _____
- (ii)Median is _____
- (iii)Mode is _____
- 2. The following data set belongs to a population:

5 -7 2 0 -9 1 61

Then fill in the blank

- (i) Range is _____
- (ii) Variance is _____
- (iii) Standard deviation is ____
- 3. Using the frequency distribution table given below prepare a cumulative frequency distribution table in percentage for the number of iPods sold by a company. Also make rough pie chart in answer book.

iPods Sold	f same
5-9	3
10-14	6
15-19	8
20-24	8
24-29	5

Q-2: Answer the following questions: (Any Two)

- 1. Solve: $\int \frac{2x}{(x+1)(x+3)} dx$ 2. Find the area of region bounded by y=2x-1; x=0; x=4.
- 3. Solve : $\int \frac{1}{(x+1)(x-2)^2} dx$