CLASS TEST/MID TERM SCRIPT

Course Code: MATH-207
Course Title: Complex variable and statistics
Student Cr Hr Group:
Term/Semester: L-2, T-2

Roll No

| 2 | 0 | 2 | 1 | 1 | 4 | 1 | 0 | 3 |

Date: 30-10-23

Signature of Invigilator

$\frac{17}{20}$

Ans. to the Ques. No. 2

smallest number = 350
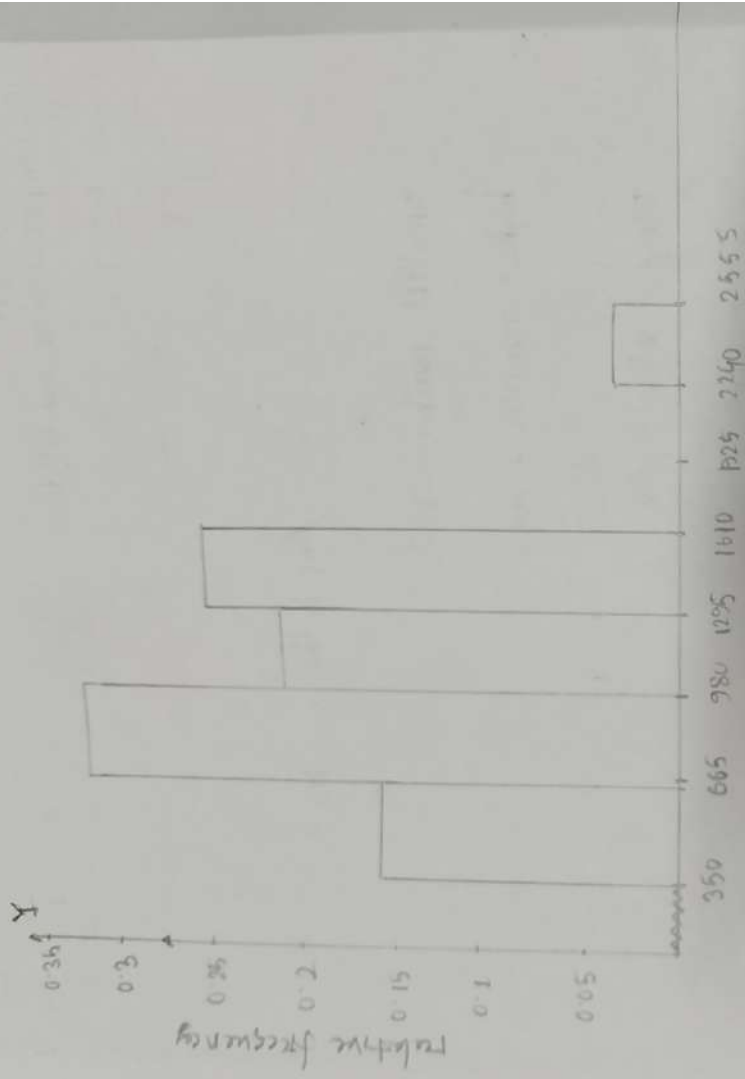
highest number = 2550

range = 2550 - 350

= 2200

10.

class interval = $\dfrac{\text{range}}{\text{no. of class}}$

= $\dfrac{2200}{7}$

= 314.28 ≈ 315

Amount of rent	tally	frequency	relative frequency
350 - 664	IIII	4	0.1667
665 - 979	LHT III	8	0.33
980 - 1294	LHT	5	0.2083
1295 - 1609	LHT I	6	0.25
1610 - 1924		0	0
1925 - 2239		0	0
2240 - 2555	I	1	0.04167
		total n = 24	

figure; Relative frequency histogram

Ans. to the Ques. No. 3

If the distances are in meters then the datas

Ans:

110D, 150D, 230D, 250D
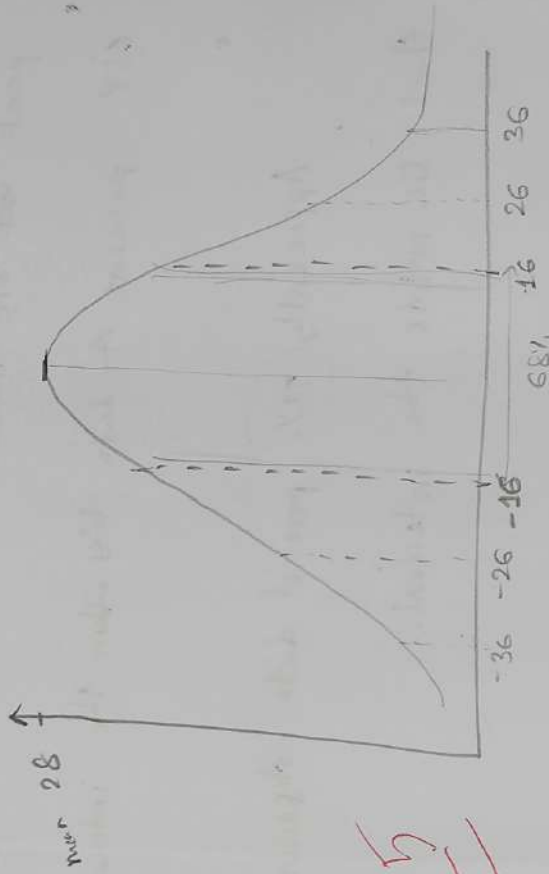
Using the data, a steam and leaf plot is given below:

4.5

1	0.1, 0.5
2	0.3, 0.5, 0.7
3	0.2, 0.3, 0.3, 0.5, 0.8
4	0.0, 0.2, 0.5, 0.5, 0.7, 0.8, 0
5	0.5, 0.6, 0.5
6	0.5, 0.7
7	
8	
9	
10	
11	
12	0.3

1st standard deviation and it has the peak at one median in it. So around 68% percent of data lies within the interval.

Apparently (32%) ~~per~~ of data observation that lie outside the interval.

Ans.7th Ques. No.1

mean 28 ↑

-36 -26 -16   16   26   36
           68%
            95%

2.5 |

$\bar{x} = 28$

$S = 3$ So,

2nd 2- standard deviation
symmetric distribution

$22 = 28 - 2 \times 3$ } since the size $n = 50$ and the interval
$34 = 28 + 2 \times 3$

$(22, 34)$. It seems that this interval represents

He lies in the (1st) standard deviation. As there were
21 elements before this interval and 16 element after
this interval. This interval must be in the

The lowest data = 1·1

The highest data = 12·3

In when the stem way 4 it has the maximum leaf.

This plot is fairly a symmetric distribution table.

$n = 24$

so median will be somewhere near 12th and 13th element. So as it lies in the stem 4 so it can be find in this part has concentration of value.