PROB & STATISTICS

Assignment # 01

NAME: Bilal Ahmed Khan

Section: B

ROU NO: 20K-0183

QUESTION OI

i) Mean: _ (128+119+96+97+124+128+142+98+108+120+ 11 5+109+124+132+97+138+133+136+120+112+ 146+128+103+136+114+109+100+111+1314113+ 124+131+133+131+88+118+116+98+112+138+ 100+112+111+150+117+122+97+116+92+122)

50

= 5891

Mean : 117.82

ii) Median:

Arranging Data in ascerding order first

88,92,96,97,97,98,98,100,100 103, 106, 107, (09, 11), 112, 112, 112, 113, 113, 114, 116, 116, 117, 118, 119, 120,120, 122, 122, 124, 124, 124, 128, 128, 128, 131, 131, 151 132,133, 133,135, 136, 138, 138, 142, 146, 150

Median = 117+118 : 117.5

Median:117.5,

iii) Mode:

This is a multimodal abstribution with the modes beigg modes=97, 112, 124, 128, 131

6) Raye:
Raye: Rm-R.
150-8

Variance:

82 (85-11702)2+ (92-11782)+(95-11782)2-.... (150-11782)2

4797. 644+669.524+73.524+964.054+4516,404

5. 220.8276

Standard Deviation:

0.500 220. 8276 O. 14.86/

J±S: 117.81±14.86: (102.95, 132.67)

J±25: 117.81±2(14.86): (85.05, 147.53).

J±35: 117.81±3(14.86): (73.23, 162.39)

3) values lie in rarge of J±S

48 values lie in rarge of J±25

50 values lie in rarge of J±35

No outlier were detelled.

3)

O1: (n+1): 51 = 12.75 = 13: = 109

O2: (n+1): 12.25 = 118

Nin. 88

Nax: 150

Nax: 150

2) 70th personale: (11) 10:51 20:35,7th

QUESTION NO.02

part Descriptive Statistics:

a - Mean:

7 - (76+63+67++ 77+82+5d)

44

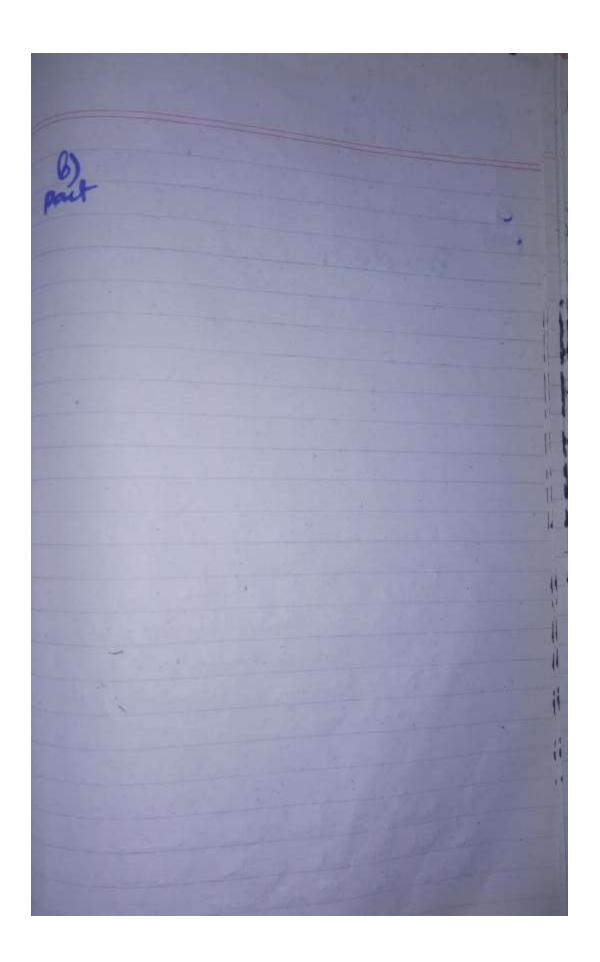
738+698+794+746

44

[7, 67, 64]

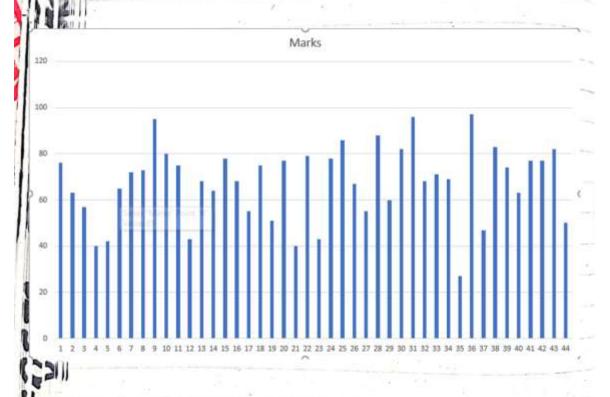
b) _ Median.

c)-Mode	
. It is a bi-moda	I data distrib
X. A	300
Modes = 68,77]	
0,200,77	
de Para	
do Rage	
Rage Work - Vomin	
(97-27	7.01
Range 270	10. 1
e) reviance:	
02 (27 - 67.41)2+(40-6	2.(4)2 (97-(2(4)
- Cyu	
= 2656,22+ 2199.43 +2	106.55 + 3931.98
1 -4	
(T = 260.78)	- 1
4) Standard Deviat	i Day
- Coldi	I ON!
U. 50°	
2 1260.78	e de la seconda
0.16.19	



part

Barchart:



By boking the bou charl we con see that majority of the students lie in the 60-80 range,

Piechart:

Rage: 70

10. of classes: 8

class interval: 70 200 10

Class 01: 20 < x < 30

Class 02: 30 < x < 40

Class 03: 40 < x < 40

Class 04: 50 < x < 60

Class 05: 60 < x < 70

Class 06: 70 < x < 80

Class 07: 80 < x < 90

Class 08: x>90

class 01 = 01 value

class 02: 0 values

class 03: 5 values

class 04: 5 values

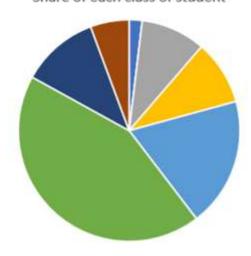
class 05: 10 values

class 06: 23 values

class 07: 6 values

class 08: 3 values

Share of each class of student



- Class 01 (20 to 30)
 Class 02 (30 to 40)
 Class 03 (40 to 50)
 Class 04 (50 to 60)
- Class 05 (60 to 70) Class 06 (70 to 80) Class 07 (80 to 90) Class 08 (>90)

By facking a look of the chart we can clearly see that the majority of stockets secured marks in the 70-80 marks range 1-Collowed by the 60-70 marks range.