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Assignment 2

Q1] Use following Data and construct relative frequency, percentage, Cumulative freq. & Cumulative percentage table
A) Use 7 equal interval classes
B) Use 13 equal interval classes

⇒ A) Max value = 98
     Min value = 38
     No. of classes = 7
     ∴ Class interval = $\frac{98 - 38}{7}$ = 8.714 ≃ 9

Class	Freq	Relative Frequency	Percentage	Cumulative Frequency	Cumulative Percentage
38 − 47	3	0.06	6	3	6
47 − 56	7	0.14	14	10	20
56 − 65	7	0.14	14	17	34
65 − 74	14	0.28	28	31	62
74 − 83	10	0.2	20	41	82
83 − 92	6	0.12	12	47	94
92 − 99	3	0.06	6	50	100

B] Max value = 99

Min value = 38

No of classes = 13

class interval = $\frac{99-38}{13}$ = 4.692 ≈ 5

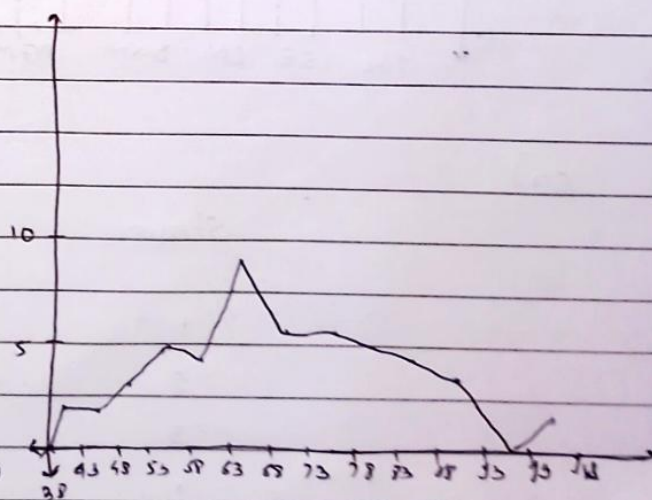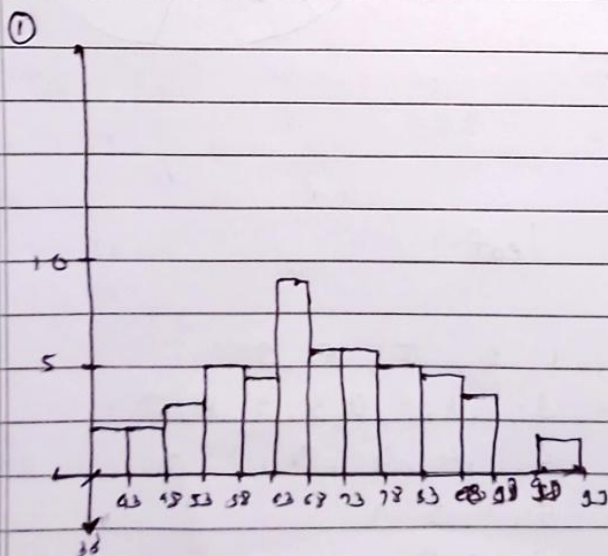| Class	Freq	Relative Freq	Percentge	Cumulative freq	Cumulative Percenta
38-43	2	0.04	4	2	4
43-48	2	0.04	4	4	8
48-53	3	0.06	6	7	14
53-58	5	0.1	10	12	24
58-63	4	0.08	8	16	32
63-68	8	0.16	16	24	48
68-73	6	0.12	12	30	60
73-78	6	0.12	12	36	72
78-83	5	0.1	10	41	82
83-88	4	0.08	8	45	90
88-93	3	0.06	6	48	96
93-98	0	0	0	48	96
98-99	2	0.04	4	50	100

Q2] For above data plot histogram and polygon chart.

⇒ (A)
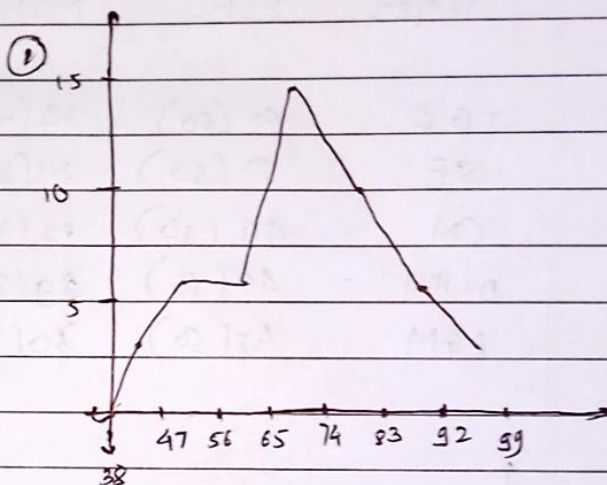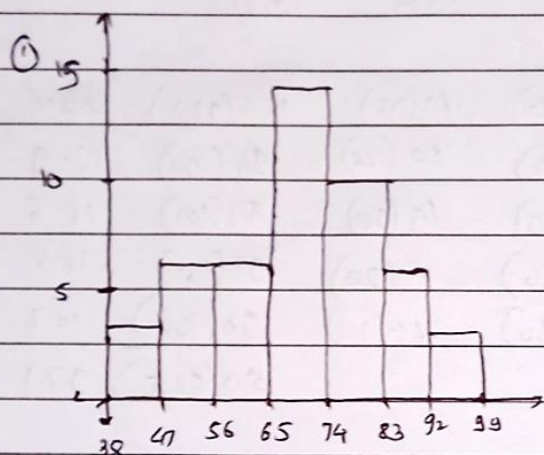
(B)

Q3] Plot bar chart and pi chart to present result analysis of your own regular sem 5 subject, consider total = ISA+ MSE+ ESE

subject	ESE	MSE	ISA	Total	%	degree
TOC	60 (60)	39 (40)	25 (25)	124 (125)	23.6	87.5
SE	50 (50)	24 (30)	20 (20)	94 (100)	17.9	66.4
CN	49 (50)	29 (30)	19 (20)	97 (100)	18.5	68.6
DUM	48 (50)	29 (30)	20 (20)	97 (100)	18.5	63.6
PGM	48 (50)	30 (30)	20 (20)	98 (100)	18.7	69.3
				510 (525)	97.1	

Q4]
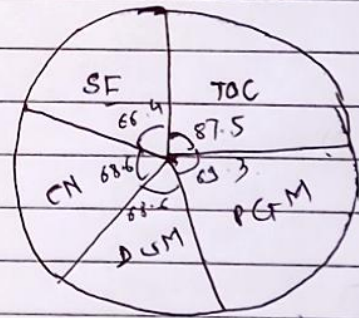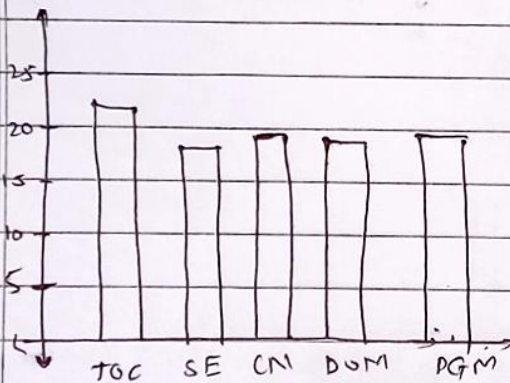
steam	leaf
1	1, 2, 5, 6, 9
2	3, 1, 8, 9, 0 3, 9, 8, 7
3	4, 1, 4, 4, 3, 1, 0
4	5, 5, 3, 3
5	4, 1, 2
6	7, 0, 2