ASSIGNMENT: STATISTICS

Q1. Find the mean of the data using direct method: ANS:22

Class	0-10	10-20	20-30	30-40	40-50
Frequency	12	16	6	7	9

Q2. Find the mean of the data using direct method: ANS:25

Class	0-10	10-20	20-30	30-40	40-50
Frequency	3	5	9	5	3

Q3. If the mean of the data is 25 find value of p ANS:p=16

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	18	15	p	6

Q4. The mean of the distribution is 54.Find the value of 'p' Ans p=11

Marks	0-20	20-40	40-60	60-80	80-100
No of Students	7	p	10	9	13

Q5. Find the mean of the data using SHORT CUT method: ANS: 27.2

Class	0-10	10-20	20-30	30-40	40-50
Frequency	7	8	12	13	10

Q6. Find the mean of the data using SHORT CUT method: ANS: 112.2

Class	50-70	70-90	90-110	110-130	130-150	150-170
Frequency	7	8	12	13	10	22

Q7. Find the mean of the data using SHORT CUT method: ANS: 145

Class	100-120	120-140	140-160	160-180	180-200
Frequency	10	20	30	15	5

Q8. Find the mean of the data using SHORT CUT method: ANS: 110.67

Class	0-40	40-80	80-120	120-160	160-200
Frequency	12	20	35	30	23

Q9. Find the mean of the data using STEP DEVIATION method: ANS: 28

Class	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	12	20	35	30	23	6

Q10. Find the mean of the data using STEP DEVIATION method: ANS: 91

Class	0-30	30-60	60-90	90-120	120-150	150-180
Frequency	12	21	34	52	20	11

Q11. Find the mean of the data using STEP DEVIATION method: ANS: 69.33

Class	0-20	20-40	40-60	60-80	80-100	100-120	120-140
Frequency	12	18	15	25	26	15	9

Q12. Find the mean of the data using STEP DEVIATION method: ANS: 33.33

Class	18-24	24-30	30-36	36-42	42-48	48-54
Frequency	6	8	12	8	4	2

Q13. The mean of the distribution is 62.8.Find the value of ‘x’

Marks	0-20	20-40	40-60	60-80	80-100	100-120
No of Students	5	8	x	12	7	8

Q14. The mean of the distribution is 50.Find the value of ‘a ’ and ‘b’ ANS: a=28 b = 24

Marks	0-20	20-40	40-60	60-80	40-50	Total
No of Students	17	a	32	b	19	120

Q15. The mean of the distribution is 57.6.Find the value of ‘a ’ and ‘b’ ANS a = 8 , b =10

Marks	0-20	20-40	40-60	60-80	80-100	100-120	TOTAL
No of Students	7	a	12	b	8	5	50

Q16. The mean of the distribution is 62.8.Find the value of ‘a ’ and ‘b’ ANS a = 8 , b =12

Marks	0-20	20-40	40-60	60-80	80-100	100-120	TOTAL
No of Students	5	a	10	b	7	8	50

Q17. Find median of the following data Ans 26

Class Interval	0-8	8-16	16-24	24-32	32-40	40-48
Frequency	8	10	16	24	15	7

Q18. Find median of the following data Ans 167

Height (cm)	160-162	163-165	166-168	169-171	172-174
Frequency	15	117	136	118	14

Q19. Find median of the following data Ans 270

Class Interval	100-150	150-200	200-250	250-300	300-350
Frequency	6	3	5	20	10

Q20. Find median of the following data Ans 206.25

Class Interval	0-100	100-200	200-300	300-400	400-500
Frequency	40	32	48	22	08

Q21. The median of the distribution is 32.Find the missing frequency Ans a=9 , b = 16

Marks	0-10	10-20	20-30	30-40	40-50	50-60	TOTAL
No of Students	10	?	25	30	?	10	100

Q22. The median of the distribution is 32.5.Find the missing frequency Ans a= 3 , b = 6

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	TOTAL
No of Students	a	5	9	12	b	3	2	40

Q23. Find the median of the following data: Ans35

Marks	Below10	Below20	Below30	Below40	Below50	Below60
NoStudent	6	15	29	41	60	70

Q24. Find median of the following data Ans 93.50

Class Interval	61-70	71-80	81-90	91-100	101-110	110-120
Frequency	6	3	5	20	10	8

Q25. Find the mode of the following data: Ans: 46.66

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	8	7	12	28	20	10

Q26. Find the mode of the following data: Ans 167.35

Height (cm)	160-162	163-165	166-168	169-171	172-174
Frequency	15	118	142	127	18

Q27. Find mean, median & mode

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	10	18	30	20	12	5

Q28. Find the mean, median and mode:

Height (cm)	120-130	130-140	140-150	150-160	160-170	Total
No. of Girls	2	8	12	20	8	50

Q29. For the data draw a cumulative frequency curve of less than type, and obtain median value:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	15	20	23	17	11	9

Q30. For the data draw a cumulative frequency curve of more than type, and obtain median:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	2	3	7	11	15	7	2	3

Q31. For the data draw on OGIVE of more than type & less than type & find median:

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Weight(Kg)	38-40	40-42	42-44	44-46	46-48	48-50	50-52
No of Students	3	2	4	5	14	4	3

Q32. For the data draw on OGIVE of more than type & less than type & find median:

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
No of Students	3	2	4	5	14	4	3	18	4	2