22. Calculate mean and median for the given below :

C.I :	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
f :	42	38	120	84	48	36	31

23. Find the quartile deviation from the frequency distribution :

C.I :	351 − 500	501 − 650	651 − 800	801 − 950	951 − 1100
f :	48	189	88	47	28

24. Ten competitors in a musical test were ranked by three judges A, B and C in the following order :

A :	1	6	5	10	3	2	4	9	7	8
B :	3	5	8	4	7	10	2	1	6	9
C :	6	4	9	8	1	2	3	10	5	7

Using rank correlation method, discuss which pair of judges has the nearest approach to common likings in music.

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Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is secondary data?

2. How you define ordinal data?

3. State any two advantages of diagrammatic representation.

4. Define sub-divided bar diagram.

5. What you mean by mean?

6. State any two advantages of mode.

7. Define Range.

8. What is standard deviation?

9. Define negative correlation.

10. What is scatter diagram?

11. What you mean by complete enumeration?

12. Write the sources of collecting primary data.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Explain the discrete and continuous frequency distribution.

14. Represent the following data by means of a percentage bar diagram.

Item	Cost of production (in Rs.)		
	1992	1993	1994
Raw material	5000	6600	9000
Labour	2000	3000	3000
Overhead	2000	1800	1800
Others	1000	600	1200
Total	10,000	12,000	15,000

15. Calculate mode from the following data :

C.I :	0 – 19	20 – 39	40 – 59	60 – 79	80 – 99
f :	5	20	35	20	12

16. Compute the mean deviation from means for the following :

x :	2	4	6	8	10
f :	1	4	6	4	1

17. Explain the types of correlation.

18. Explain the contingency table.

19. Draw a histogram and frequency polygon from the following :

Size :	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
Freq :	3	5	12	8	4

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Discuss the collection of primary and secondary data.

21. Draw the both Ogive curves from the following :

C.I :	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
f :	20	25	36	46	52	31	28	22

2 52503/125E1B/
141E1B/120E1B/
127E1B/126E1B/
220E3B/241E3B/
226E3B/227E3B/
225E3B

3 52503/125E1B/
141E1B/120E1B/
127E1B/126E1B/
220E3B/241E3B/
226E3B/227E3B/
225E3B