

Part – B
Answer the following
Answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. What are the uses of statistics?
(Or)
- 11.b. Write a note on non probability sampling.
- 12.a. What are limitations of diagram and graphs?
(Or)
- 12.b. What are cumulative frequency distribution?
- 13.a. What are the uses of harmonic mean?
(Or)
- 13.b. Explain the merits, demerits and uses of ranges.
- 14.a. Point out the significance of the study of correlation.
(Or)
- 14.b. What are the merits and limitations of scatter diagram.
- 15.a. What are the uses of regression?
(Or)
- 15.b. Differentiate correlation and regression analysis.

Part – C
Answer the following
Answer should not exceed 800 words or four pages

5 x 12 = 60

- 16.a. Examine the merits and demerits of primary data.
(Or)
- 16.b. Explain the various methods of collecting the primary data.
- 17.a. From the below data form a histogram and frequency polygon.

Marks –	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No.of.students	3	8	17	20	22

- (Or)
- 17.b. Examine the merits and limitations of three dimensional diagrams.
- 18.a. Find the standard deviation of the following data.
48, 43, 65, 57, 31, 60, 37, 48, 59, 78
(Or)
- 18.b. Find the arithmetic mean from the following data.

Marks	52	58	60	65	68	70	75
No.of students	7	5	4	6	3	3	2

- 19.a. Calculate Karl Pearson's coefficient of correlations.
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|---|----|----|----|----|----|
| X | 48 | 35 | 17 | 23 | 47 |
| Y | 45 | 20 | 40 | 25 | 45 |
- (Or)
- 19.b. Examine the features, merits and limitations of concurrent deviation method.
- 20.a. From the following data obtain the two regression equations
- | | | | | | |
|---|---|----|----|---|---|
| X | 6 | 2 | 10 | 4 | 8 |
| Y | 9 | 11 | 5 | 8 | 7 |
- (Or)
- 20.b. Examine the uses of least squares method.
