

**DSC M -2302**  
**B.Sc (Honours) U.G Examinations-29 April 2024**  
 SEMESTER-II (REGULAR)  
 (Admitted Batch 2023-24 Only)  
**DESCRIPTIVE STATISTICS**

TIME: 3 Hrs

Max Marks:60

Section-A

Answer any five of the following questions:

5x4=20M

1. Explain secondary data.
2. Define geometric mean and harmonic mean.
3. Explain about kurtosis.
4. Write merits and demerits of quartile deviation.
5. Explain fitting of a straight line. ✓
6. Explain partial correlation. ✓
7. Distinguish correlation and regression. ✓
8. Show that 'r' is G.M of two regression coefficients. ✓
9. Explain the independence of attributes. ✓
10. Explain about rxs contingency table. ✓

## Section-B

Answer all of the questions.

5x8=40M

11. Draw the Ogive curve to the following data

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	5	9	12	16	24	15	8	3

(Or)

12. Find the mean, median values.

C.I	0-20	20-40	40-60	60-80	80-100
f	15	23	50	25	10

17  
13. Explain different measures of dispersion.

(Or)

14. Explain measures of skewness and kurtosis

15. Explain fitting of exponential curves. ✓

(Or)

16. Calculate spearman rank correlation for the following data.

X	20	14	36	29	5	11
Y	19	9	25	10	2	6

17. Define Regression coefficients. State their properties and prove at least two of them. ✓

(Or)

18. Derive the Regression line of Y on X. ✓

19. What is Consistency of data ? Write the conditions of consistency in case of two and three attributes. ✓

(Or)

20. Define Yule's coefficient of association and colligation. Show that

$$Q = \frac{2y_1}{1+y_2}$$

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