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Name of the Candidate :

B.Sc. DEGREE EXAMINATION, 2011

(DOUBLE DEGREE)

(OPERATIONS RESEARCH)

(PART – III -- PAPER–I)

710. STATISTICAL METHODS

December)

Maximum: 100 Marks

(Time: 3 Hours

SECTION –A

(8×5=40)

Answer any EIGHT questions

1. Explain the significance of diagrammatical representation of statistical data.
2. Write a note on secondary data.
3. Define: (i) Median (ii) Mode. Also state their merits and demerits.
4. Explain the following with suitable example (i) Harmonic Mean (ii) Weighted Mean
5. Define coefficient of variation. Also state the uses of this measure.
6. Define Mean Deviation. Mention the limitations of Mean Deviation.
7. Examine the assumptions made in the computation of correlation coefficient.
8. Explain in detail the uses of regression analysis.
9. Write an explanatory note on Yule's coefficient of Association.
10. Find the missing frequencies from the following data:  
(a B) = 500, (B) = 600, (a) = 800, (b) = 1000

SECTION – B

Answer any THREE questions

(3×20=60)

11. a) Write a descriptive account of the following:  
(i) Histogram (ii) Frequency Curve
- b) Explain any one method of correcting primary data.

12. Compute Mean, Median and Mode for the following data:

Leaf weight (in gms)	20-25	25-30	30-35	35-40	40-45	45-50
No. of Leaves	64	156	210	167	110	83

13. Calculate Karl Pearson's coefficient of Skewness for the data given in the following table

Production (in 000 units)	4-6	6-8	8-10	10-12	12-14	14-16
No. of Firms	84	93	107	150	42	18

14. For the following data compute the regression equation of x on y and estimate the value of x when y = 10

y	4.6	9.8	7.2	9.4	6.3	8.3	5.2	7.4
x	1.2	5.0	1.8	4.0	1.6	3.0	1.4	2.0

15. Write a detailed account of the following:

- (i) Consistency of Data      (ii) Coefficient of colligation.

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