

E 8463

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Reg. No.....

Name.....

C/ERON
7/2/19

B.A. DEGREE (CBCS) EXAMINATION, JANUARY/FEBRUARY 2018

First Semester

Corporate Economics

Core—ELEMENTARY STATISTICS OF ECONOMICS—I

(2017 Admissions)

Time : Three Hours

Maximum Marks : 80

Part A

*Answer any ten of the following.
Each question carries 2 marks.*

1. What is a frequency table ?
2. Distinguish between classification and tabulation.
3. Define a random sample.
4. What is a frequency polygon ?
5. The following data indicate daily earnings of 40 workers in a factory :

Daily earnings in Rs.	:	5	6	7	8	9
No. of Workers	:	3	8	12	10	7

Calculate the average income per worker.

6. Define geometric mean.
7. Find the mode from the values 7, 8, 11, 8, 16, 17, 24, 10, 9.
8. What is a Lorenz curve ?
9. State the desirable properties of a measure of dispersion.
10. What is Kurtosis ?
11. Distinguish between positive and negative skewness.
12. Give the formula for quartile co-efficient of skewness.

(10 × 2 = 20)

Turn over

Part B

*Answer any six questions.
Each question carries 5 marks.*

13. Discuss briefly the limitations of statistics.
14. Explain the method of selecting a systematic sample.
15. What are ogives ? How will you construct it ?
16. Draw a histogram for the following data :

Class	:	10 – 15	15 – 20	20 – 30	30 – 40	40 – 50	50 – 75	75 – 100
Frequency	:	4	12	20	18	14	25	10

17. Explain what is meant by weighted average and discuss the effect of weighting.
18. What is a relative measure of dispersion ? Distinguish between absolute and relative measure of dispersion.
19. Compute co-efficient of QD from the following data :—

Marks	:	10	20	30	40	50	60
No. of students	:	4	7	15	8	7	2

20. Draw an histogram for a distribution having unequal class intervals.
21. Calculate Bowley's co-efficient of skewness for the following data and comment on the result.

Class	:	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
Frequency	:	8	15	24	21	12

(6 × 5 = 30)

Part C

*Answer any two questions.
Each question carries 15 marks.*

22. What is a statistical survey. Explain the different stages of conducting a statistical enquiry.
23. Calculate Karl Pearson's co-efficient of skewness from the following data :

Monthly Salary (below) :	80	90	100	110	120	130	140	150
No. of Clerks :	12	30	65	107	157	202	222	230

24. What are the special uses of G. M. and H. M. ? Calculate G. M. and H.M. for the following data :

Value : 0 - 10 10 - 20 20 - 30 30 - 40 40 - 50

Frequency : 8 12 20 6 4

25. Calculate arithmetic mean and standard deviation from the following data. Also find which series is more consistent :

Class : 10 - 20 20 - 30 30 - 40 40 - 50 50 - 60 60 - 70

Series A : 10 16 30 40 26 18

Series B : 22 18 32 34 18 16

(2 × 15 = 30)