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Name.....

Reg. No.....

FIRST YEAR B.Com. DEGREE EXAMINATION, APRIL/MAY 2008

Part III—Commerce

Paper I—BUSINESS STATISTICS

(2005 admissions)

[New Scheme]

Time : Three Hours

Maximum : 80 Marks

*Answers may be written either in English or in Malayalam.***Part A***Answer any ten questions.**Each question carries 1 mark.*

1. Define Statistics.
2. What is classification ?
3. What do you mean by class boundaries ?
4. What is source note ?
5. Give a short explanation of sample size.
6. What is Linear Correlation ?
7. When is Weighted Arithmetic Mean used ?
8. Write a note on Second Order Averages.
9. Give any *one* difference between Standard deviation and Mean deviation.
10. Give the formula for coefficient of skewness.
11. What would be your interpretation if coefficient of correlation $(r) = 0$?
12. Explain Mutually Exclusive Events.

(10 × 1 = 10 marks)

Part B*Answer any ten questions.**Each question carries 4 marks.*

13. Write a note on use of Statistics in Commerce.
14. "Statistics in the Science of counting." Explain.
15. Distinguish between Primary data and Secondary data.
16. What are the different parts of a table ?
17. Distinguish between Correlation and Regression.

18. What are the advantages of Graphs and Diagrams ?

19. Calculate Median from the following data :—

Marks	4—7	8—11	12—15	16—19	20—23	24—27	28—31	32—35
Frequency	4	11	25	47	56	29	20	8

20. Calculate coefficient of correlation by concurrent deviation method :

X	80	78	79	73	84	84	88	88	80
Y	92	95	91	90	96	98	96	98	98

21. Use the most suitable formula to obtain Price Index No. taking 2004 as base :

Commodity	2004		2005	
	Price	Quantity	Price	Quantity
A	5	10	8	15
B	8	15	10	10
C	10	20	9	25
D	15	10	16	12

22. Find Q_1 and Q_3 for the following :—

21 17 18 11 27 22 19 14 21

23. Find the missing terms if \bar{X} of the following given series is 1.46 :

Number of accidents	Frequency
0	46
1	?
2	?
3	25
4	10
5	5
N = 200	

24. Four cards are drawn without replacement. What is the probability that they are all ... (10 × 4)

Part C

Answer any two questions.
Each question carries 15 marks.

5. The following table gives information regarding distribution of items and defective them according to size groups:—

Size groups	25—26	26—27	27—28	28—29	29—30	30—31
Total No. of items	180	250	320	340	380	280
Defectives	130	142	150	160	160	104

Is there correlation between size and defectives ?

There are 3 Economists, 4 Engineers, 2 Statisticians and 1 Doctor. A committee of 4 from among them is to be formed. Find the probability that the committee :

- (a) Consist of one of each type.
- (b) Has at least one Economist.
- (c) Has the doctor as a member.

Compute Inter Quartile Range and Coefficient of Quartile Deviation for the following data :—

X :	4	8	12	16	20	24	28	32
f :	4	9	17	40	53	37	24	16

(2 × 15 = 30 marks)

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