

B.C.C.A. (CBCS Pattern) Semester - III
UBCCAT301 - Statistics Techniques and Business Mathematics-I

P. Pages : 2

Time : Three Hours



GUG/S/23/10626

Max. Marks : 80

- Notes : 1. Attempt all questions.
2. All questions carry equal marks.

1. a) Define Statistics. Explain the functions of statistics. 8
- b) Find out Geometric mean from the following data. 8
- Size 20, 58, 130, 170, 250, 87, 70, 500

OR

- c) Calculate mean, median, mode from the following data. 16

Weight (Lbs)	No. of students
Above 90	105
-"- 100	100
-"- 110	80
-"- 120	40
-"- 130	28
-"- 140	22
-"- 150	14
-"- 160	10
-"- 170	3

2. a) Find out mean deviation from median & its co-efficients. 8

Size	6	8	10	12	14	16	18
Frequency	2	8	19	24	17	12	10

- b) Calculate Standard Deviations and its co-efficient of. 8

Age Below	18	20	22	24	26	28	30	32
No. of persons	2	14	18	28	39	62	70	75

OR

- c) Calculate Co-efficient of skewness from the following information. 16

Sr. No.	1	2	3	4	5	6	7	8	9
Profit	120	140	166	170	171	172	175	180	190

3. a) Given data 8
No. of pairs of observation of x & y series

Particulars	x	y
Arithmetic Average	64.6	59.3
Standard Deviation	20.94	12.2
Summation of product of corresponding deviation of x & y series is	1035.86	

Calculate co-efficient of correlation and its probable error.

- b) Calculate co-efficient of correlation from the following data. 8

Subjects	20	24	28	32	36
Relative	14	18	22	26	30

OR

- c) Find co-efficient of concurrent deviation to the data given below. 16

Price	368	384	385	361	347	395	403	400	385	384
Import	22	21	24	20	22	24	29	28	27	26

4. a) A Shopkeeper bought a T.V. for ₹ 25,000 and sold to a customer for ₹ 27,500. 8
What was his profit percentage?

- b) A discount of 10% is allowed on the market price Rs. 500 find the selling price. 8

OR

- c) A dealer buys a wristwatch for 325 and spend ₹ 20 on its repairs. If he sells the same for ₹ 400 find its profit percent. 8

- d) Having market his article 25% above cost, a traders markets profit of 3000 after allowing a discount of 10% find the cost price. 8

5. Write short note.

- a) State objective of collection of data. 4
b) Write the merits of mean deviations. 4
c) Write the types of correlation. 4
d) What is the meaning of profit & loss. 4
