

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2022
(Second Semester)

Branch – COMMERCE

STATISTICS FOR BUSINESS

Time: Three Hours

Maximum: 75 Marks

Section – A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (10 X 2 = 20)

1. Define Statistics.
2. State any two uses of Statistics.
3. Define tabulation.
4. What are the types of bar diagram?
5. State any two merits and demerits of mean.
6. Define Standard Deviation.
7. Define Correlation.
8. State any two Properties of Regression analysis.
9. What is meant by index numbers?
10. What is cost of living index number?

Section – B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 X 5 = 25)

11. a) Elucidate the limitations of Statistics.
(Or)
b) What is questionnaire? And state the essentials of a good questionnaire.
12. a) Explain the various parts of the table.
(Or)
b) Distinguish between diagrams and graphs.
13. a) Daily earnings of 10 workers are given. Calculate the mean deviation from mean and its coefficient of mean deviation from mean.
32, 51, 23, 46, 20, 78, 57, 56, 57, 30
(Or)
b) From the following data, determine the standard deviation and its coefficient of variation.

Marks	0-10	10-20	20-30	30-40	40-50
No. of Students	2	5	9	3	1

14. a) Determine the Karl Pearson's coefficient of Skewness for the following data.

Wage per item (Rs.)	12	15	20	25	30	40	50
No. of Items	10	25	40	70	32	13	10

(Or)

- b) Explain the various types of correlation with suitable example.

15. a) Explain the general problems in the construction of index numbers.

(Or)

Cont...

- b) Using geometric mean, calculate the cost of living index number for the year 2020.

Commodity	Price (2018)	Price (2020)	Weight
Food	60	108	40
Clothing	50	94	17
Fuel and Lighting	40	65	13
House Rent	125	225	27
Miscellaneous	120	240	3

Section – C (30 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 X 10 = 30)

16. Explain the methods of collecting primary and secondary data.
 17. From the following frequency distribution, draw Histogram and find the mode value.

Wages (in Rs.)	50-59	60-69	70-79	80-89	90-99	100-109	110-119
No. of Employees	8	10	16	14	10	5	2

18. Apply Mean, Median and Mode from the following frequency distribution.

Variable	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Frequency	148	368	499	648	386	211	172	89	66

19. Obtain the two regression equations from the following data.

Price (X)	25	28	35	32	31	36	29	38	34	32
Supply (Y)	43	46	49	41	36	32	31	30	33	39

20. Construct index numbers of the price from the following data by applying (i) Laspeyre's method (ii) Paasche's method (iii) Fisher's method

Products	2020		2019	
	Price	Quantity	Price	Quantity
A	4	6	2	8
B	6	5	5	10
C	5	10	4	14
D	2	13	2	19

Z-Z-Z

END