PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2024

(First Semester)

Branch - COMMERCE (BUSINESS ANALYTICS)

	STATISTICS FOR	BUSINESS ANALYT	TICS				
Γime	: Three Hours		Maximum: 75 Marks				
	Answer	N-A (10 Marks) ALL questions s carry EQUAL marks	$(10 \times 1 = 10)$				
1.	For the mid-values given below, 25	5, 34, 43, 53, 61, 70 Th	e first class of the				
	distribution is: (a) 24.5-34.5 (b) 25-34	(c) 20-30	(d) 20.5-29.5				
2.	If the lower and upper limits of a confidence of the class is: (a) 25.0 (b) 12.5	lass are 10 and 40 resp (c) 150	ectively, the mid-points (d) 30.0				
3.	In a bar diagram, the bars are: (a) horizontal (b) vertical	(c) slanting	(d) none of the above				
4.	Histogram is suitable for: (a) time series data (c) none of (a) or (b)	(b) chronological distribution (d) both (a) and (b)					
5.	When we have the number of courabout number of cases settled, the (a) sliding bar diagram (c) paired bar diagram	rt cases of different cat information can be bet (b) histogram (d) column chart	tegories and information ter portrayed through:				
6.	A function of variates for estimating (a) an estimate (b) an estimate		d: (d) a statistic				
7.	Extreme value have no effect on: (a) average (b) median	(c) geometric m	nean (d) harmonic mean				
8.	Geometric mean of two numbers 1 (a) 1/10 (b) 1/100	1/16 : and 4/25 is: (c) 10 28	(d) 1009.				
9.	For comparison of two different so (a) range (c) standard deviation	eries, the best measure (b) mean deviation (d) none of the abov					
10.	Which measure of dispersion ensu (a) range (c) quartile deviation	res lowest degree of re (b) mean deviation (d) standard deviati					
	Answer	N - B (35 Marks) ALL questions ons carry EQUAL Mar	ks $(5 \times 7 = 35)$				
11	(a) What are the requisites of a OR	standard table?					
	(b) Write the main purposes of	tabulation.					
12	Draw Histogram to the data Daily Income 10-12 Number of persons: 12		16-18 18-20 12 16				

OR

(b)

one of them.

Give the names of diagrams which are two -dimensional. Also explain any

Cont...

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Cont...

13 (a) Distinguish between complete enumeration and sampling study.

OR

(b) Explain sampling error.

14 (a) Find Geometric mean to the data below.

X	10-15	15-20	20-25	25-30	30-35	35-40
f	12	14	18	12	16	10
						-

OR

(b) Define Harmonic mean and give its merits.

15 (a) Find Mean deviation to the data below. 23, 23, 26, 34, 17, 26, 23, 14, 32, 25

(b) Distinguish between skewness and kurtosis.

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3\times10=30)$

- 16 Explain the parts of a good table.
- 17 Draw Histogram, frequency polygon and frequency curve to the data below.

Sales	1-5	6-10	11-15	16-20	21-25	26-30	31-35
No. of days	1	2	9	14	12	7	3

- 18 Explain various non-probability sampling methods.
- 19 Find mean, median and mode to the data below.

Daily Income (in Rs):	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Number of workers:	2	4	8	16	10	5	2

Find Bowley's coefficient of skewness to the data below.

sales	1-5	6-10	11-15	16-20	21-25
No. of days	11	12	23	21	10