PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2019
(First Semester)

Branch - **COMMERCE (BUSINESS ANALYTICS)**

STATISTICS FOR BUSINESS ANALYSIS

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** marks (10x2 = 20)

1 Define statistics.
2 What is primary data?
3 State the different types of classification of data.
4 What is sampling?
5 What are the various types of statistical diagrams?
6 What is Histogram?
7 Define Median.
8 State the various measures of dispersion.
9 Define skew ness.
10 State the Bow ley's co-efficient of skew ness.

SECTION - B (25 Marks)

Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5x5= 25)

11 a State the limitations of statistics.

OR

b What is secondary data? State the sources of secondary data.

12 a What are the objectives of classification of data?

OR

b What is simple random sampling? State it's advantages.

13 a The marks obtained by 30 students out of 10 are:
4, 10, 5, 6, 2, 4, 7, 3, 2, 1, 5, 6, 7, 9, 1, 9, 8, 2, 4, 5, 6, 3, 2, 9, 8, 5, 4, 4, 0, 3.
Array the data and form the frequency distribution.

OR

b Write a note on i) Frequency polygon and ii) Ogives.

14 a Ca:culate Mean deviation from mean for the following data.

X	10	15	20	25	30
F	2	4	6	8	5

OR

b Calculate the standard deviation.

Class:	10-15	15-20	20-25	25-30	30-35	35-40
Frequency:	2	8	20	35	20	15

Find the Pearson's co-efficient of s	cewness for the given data:			
Annual sales (in'000 Rs.)	0-20	20-40	40-60	60-80	80-100 ! 100-120 !
Number of items	20	50	59	30	25	16

17CBA02

Cont...

SECTION - C (30 Marks)

Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Explain the various methods of collecting primary data.

17 Explain i) Stratified random sampling and
ii) Systematic sampling

18 Construct a Histogram and a frequency polygon for the following data:

Out put (Units per worker)	500-509	510-519 | 520-529	530-539	540-549	550-559 | 560-569
No. of workers:		Ns i 23	37	47	26 1 16

Calculate Mean, Median and Mode for the fo lowing data.

Class	4-8	8-12	12-16	16-20	20-24	24-28	28-32
Frequency	2	6	10		8	3	i

20 Calculate Bow ley's co-efficient of skew ness:

Class	1-5	6-10	11-15	16-20	21-25	26-30	31-35
Frequency	20	27	29	38	48	53	70

Z-Z-Z END