14CDU21

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Fourth Semester)

Branch - **COSTUME DESIGN & FASHION**

APPAREL STATISTICS

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** marks (1 0 x 2 = 20)

1 Define statistics.
2 What is primary data?
3 State any two advantages of diagrammatic representation.
4 What is Bar diagram?
5 Define median.
6 What is Co-efficient of variation?
7 What is control charts?
8 State the control limits of x and R charts.
9 What are various components of time series?
10 Define trend.

SECTION - B (25 Marks)

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

11 a Write down the limitations of Statistics.

OR

b Distinguish between primary data and secondary data.

12 a What do you understand by tabulation? What are the objectives of tabulation of data?

OR

b Explain in brief a Pie-diagram with suitable example.

13 a Find the mean and median from the following data:

X :	2	4	6	8	10
F :	5	8	13	10	6

OR

b The marks obtained by 10 students in a semester examination in apparel statistics are as follows:
70, 65, 68, 70, 75, 73, 80, 70, 83 and 86.
Compute i) range, and ii) variance.

14 a What do you understand by SQL? Discuss briefly its importance in industry.

OR

b Discuss the role of control charts in-manufacturing processes.

15 a What is time series? Mention the importance of time series.

OR

b From the following data calculate the four year moving average and determine the trend values. -x

Year :	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Value:	50	36.5	43	44.5	38.9	38.1	32.6	41.7	41.1	33.8

SECTION - C (30 Marks)

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

16 Explain the methods of collecting primary data.

17 Draw the less than and more than 0 gives from the data given below.

Class :	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency :	6	8	12	18	25	16	8	5	2

Calculate the Co-efficient of variation for the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of. Students :	12	18	35	42	50	45	20	8

19 Discuss the theoretical basis of P and C Charts.

20 Fit a straight line trend by the method of least squares to the following data. Also estimate the earning for the year 2015.

Year :	200*1	2002	2003	2004	2005	2006	2007	2008
Earnings (Rs. lakh) :	38	40	65	72	69	60	87	95

Z-Z-Z END