23CDU420N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fourth Semester)

Branch - **COSTUME DESIGN AND FASHION**

APPAREL STATISTICS

Time: Three Hours Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	In Indirect oral interview information is collected from _____. a) Respondent b) Informant c) Enumerator d) Enquirer	K1	CO1
	2	The list of questions in which the respondent fills the responses is called a --- a) Question paper b) Questionnaire c) Schedule d) Response Sheet	K2	CO1
2	3	A graphical tool used to locate the mode is ---- a) Pie chart b) Bar chart c) Histogram d) Ogives	K1	CO1
	4	Which of the following diagrams can be used to represent the gender wise distribution of the population? a) Simple Bar diagram b) Pie Diagram c) Subdivided Bar diagram d) Both (a) and (b)	K2	CO1
3	5	The standard deviation of three values a, b, c is 0.4. What is the standard deviation of a-3, b-3, c-3? a) 0.1 b) 0.4 c) 1.2 d) 0.12	K1	CO1
	6	If the variance is 4 and mean is 10, what is the coefficient of variation? a) 40 b) 20 c) -20 d) Plus or Minus 20	K2	CO1
4	7	To find the intensity of interrelationship between drinking habit and beauty, which of the following measures can be used? a) Karl Pearson's Method b) Spearman's method c) (a) or (b) d) Regression lines	K1	CO2
	8	Constant term in a regression equation is the ------ of the regression line. a) Intercept b) Origin c) Slope d) ordinate	K2	CO2
5	9	Which of the following is used to predict the future trend value? a) Three yearly moving averages b) Four Yearly Moving averages c) Least square line d) Semi averages	K1	CO3
	10	Which of the following is an assumption of the Method of Simple averages? a) The data has no cyclical variation b) The data has no trend c) The data has a trend d) The data has no seasonal variation	K2	CO3

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SECTION - B (35 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the functions of statistics.	K2	CO1
		(OR)		
	11.b.	Explain the methods of collecting secondary data.		
2	12.a.	Classify the components of a table.	K3	CO1
		(OR)		
	12.b.	Construct the frequency table using inclusive class intervals 0-19, 20-39---- using the marks of 30 students in a class. 12 23 45 34 34 56 62 96 88 32 22 45 87 76 45 34 23 22 12 9 13 4 35 36 67 78 79 86 92 25		
3	13.a.	Classify the merits and demerits of mean, median and mode.	K4	CO1
		(OR)		
	13.b.	Analyze the data below by using mean. Profit: 0-20, 20-40, 40-60, 60-80, 80-100 No. of days: 12, 15, 26, 30, 23		
4	14.a.	Construct the differences between correlation and regression.	K3	CO2
		(OR)		
	14.b.	Apply Spearman's Rank correlation coefficient, for the following data. X: 80 91 99 71 61 81 70 59 Y: 123 135 154 110 105 134 121 106		
5	15.a.	Analyze the following data by using the three yearly moving averages. Year: 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 Value: 21 22 23 25 24 22 25 26 27 26	K4	CO3
		(OR)		
	15.b.	Fit a straight line trend equation by the method of least squares and estimate the trend value for the year 1985. Year: 1979 1980 1981 1982 1983 Sales in Rs: 100 120 140 160 180		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

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

Module No.	Question No.	Question	K Level	CO
1	16	Explain any three methods of collecting secondary data.	K2	CO1
2	17	Locate the median graphically by drawing Ogives. Values: 0-2, 2-4, 4-6, 6-8, 8-10 No. Of values: 10, 18, 30, 18, 10	K3	CO1
3	18	Apply median and mode for the following data. C.I: 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40 f: 9, 12, 15, 16, 17, 15, 10, 13	K3	CO1
4	19	Ten competitors in a contest were ranked by three judges A, B and C as follows. Identify the pair of judges who have common ranking style. Candidates: 1 2 3 4 5 6 7 8 9 10 Judge A: 1 6 5 10 3 2 4 9 7 8 Judge B: 3 5 8 4 7 10 2 1 6 9 Judge C: 6 4 9 8 1 2 3 10 5 7	K4	CO2
5	20	Analyze the seasonal indices assuming that the trend is absent. Year: IQ IIQ IIIQ IVQ 1990: 112 110 120 115 1991: 80 145 105 90 1992: 95 100 140 80 1993: 110 90 130 110 1994: 85 110 110 90 1995: 92 120 100 85	K4	CO3

Z-Z-Z END