

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024  
(Second Semester)

Branch- PSYCHOLOGY

PSYCHOLOGICAL STATISTICS - I

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	A difference between maximum and minimum score in statistics is called: a) Range b) Class interval b) Frequency c) Size of class interval	K1	Co1
	2	Frequency polygon is called : a) Frequency curve c) Histogram b) Line graph d) Ogive	K2	Co1
2	3	Identify the positional average. a) Mean b) Median c) Mode d) MD	K1	Co2
	4	Which among the following is NOT a measure of central tendency? a) Mean c) Mode b) Standard deviation d) Median	K2	Co2
3	5	A measure of the spread or variability of scores in a group of people is called: a) Norms c) Standard Deviation b) Reliability d) Validity	K1	Co3
	6	The sum of squares of deviations of a set of numbers from their mean is the property of _____ a) Arithmetic mean c) Harmonic mean b) Geometric mean d) Combined mean	K2	Co3
4	7	In a negatively skewed distribution the position of the Mean with reference to the Median is: a) Left of the median c) Same as median b) Right of the median d) Same as Mode	K1	Co4
	8	A distribution is leptokurtic if the calculated value of kurtosis in terms of percentile is _____ a) Equal to 0.263 c) Greater than 0.263 b) Less than 0.263 d) None of these	K2	Co4
5	9	The process of grouping the related data into classes is called a) Collection c) Grouping b) Tabulation d) Classification	K1	Co5
	10	Data regarding psychological traits will be in _____ from a) Continuous c) Both a and b b) Discrete d) Either a or b	K2	Co5

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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.	Differentiate between descriptive and inferential statistics	K1	CO1
	(OR)			
	11.b.	Briefly discuss the need and importance of statistics.		
2	12.a.	Discuss merits and demerits of using mode as a measure of Central tendency.	K2	CO2
	(OR)			
	12.b.	Compare median and mode as measures of central tendency?		
3	13.a.	Describe the concept of Quartile Deviation.	K3	CO3
	(OR)			
	13.b.	State the steps in calculating IQR.		
4	14.a.	Discuss factors causing divergence in normal curve.	K4	Co4
	(OR)			
	14.b.	Explain the types of Kurtosis.		
5	15.a.	Explain Data view and variable view in SPSS.	K5	Co5
	(OR)			
	15.b.	How do you perform Shapiro – Wilks test in SPSS? Explain.		

**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	Describe different scales of Measurement.	K4	Co1
2	17	Describe measures of central tendency elucidate advantages and disadvantages of descriptive statistics.	K3	Co2
3	18	Explain the concept of dispersion. Elucidate the functions and measures of dispersion.	K3	Co3
4	19	What is normal distribution? Discuss its importance and characteristics.	K5	Co4
5	20	Discuss the diagrammatic representations of data in SPSS.	K5	Co5