

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATIONS DECEMBER 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	Histogram is useful to locate graphically the value of a) Arithmetic mean b) Median c) Mode d) Geometric mean	K1	CO1
	2	In discrete series, items having _____ frequency is taken as mode. a) Highest b) Lowest c) Medium d) Average	K2	CO1
2	3	Measure of variation of the items from some central value is referred to as a) Deviation b) Dispersion c) Difference d) Doth (a) and (c)	K1	CO2
	4	Which of the following is not a measure of dispersion? a) Range b) Quartile deviation c) Median d) Mean deviation	K2	CO2
3	5	The sum of squares of deviation is least when measured from a) Zero b) Mean c) Median d) Mode	K1	CO3
	6	_____ is a relative measure of variation based on standard deviation a) Quartile deviation b) Mean deviation c) Coefficient of variation d) Variance	K2	CO3
4	7	Which of the following is application of normal curve? a) Used to convert a raw score into standard score b) Useful in calculating percentile rank of scores c) For normalizing a given frequency distribution d) All of the above	K1	CO4
	8	The first man to write a book on probability is a) Galileo b) Pierre De-Fermat c) Demovire d) Girolamo Cardano	K2	CO4
5	9	Representation of data as portions of a circle of 3600 a) Bar diagram b) Pie diagram b) Pictogram d) None of the above	K1	CO5
	10	The representation of numerical data by using pictures in proportion to numbers a) Pie diagram b) Pictogram b) Line graph d) None of the above	K2	CO5

Cont...

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 meaning and application of statistics in psychology	K1	CO1
	(OR)			
	11.b.	How does a histogram differ from a frequency polygon?		
2	12.a.	Define mean discuss its uses and advantages.	K2	CO2
	(OR)			
	12.b.	How to calculate Mean, Median and Mode for ungrouped data		
3	13.a.	Define quartile and quartile deviation	K3	CO3
	(OR)			
	13.b.	Explain the various method of deviation		
4	14.a.	Describe the properties of normal probability curve?	K4	CO4
	(OR)			
	14.b.	Explain about percentile, standard score and Z-score.		
5	15.a.	Explain the various types of graphs.	K5	CO5
	(OR)			
	15.b.	Explain about the test of normality.		

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 the meaning of inferential statistics. Describe hypothesis testing.	K1	CO1
2	17	Discuss how to calculate Mean and Median for grouped data with example.	K2	CO2
3	18	Explain the various method of deviation	K3	CO3
4	19	Discuss the properties and Application of Normal probability curve.	K3	CO4
5	20	Explain how to enter and edit data in SPSS and how to draw bar graph.	K5	CO5