PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Third Semester)

Branch - PSYCHOLOGY

STATISTICS FOR PSYCHOLOGY -I

Tune:	Three Hours	, Maximum: 75 Marks	
SECTION-A (10 Marks)			
Answer ALL questions ALL questions carry EQUAL marks $(10x1 = 10)$			
1	Name the term considered as a so and interpreting numerical facts (i) Statistics (iii) Economics	cience of collecting, summarizing, analyzing (ii) Anthropology (iv) Mathematics	
2	Which term denotes the evidence (i) Graph (iii) Data	e or facts describing a group or a situation? (ii) Curve (iv) Sampling method	
3	Which of the following are the material tendency? (i) Mean (iii) Mode	(ii) Median (iv) All of the above •	
4	Which gets defined as the size of frequently? (i) Mean (iii) Median	(ii) Mode (iv) None of the above	
5 •	Which of the following is not a m (i) Range (iii) Mode	neasure of variability? (ii) Standard deviation (iv) Quartile deviation	
6	Name the term used when the rel variables can be represented grap (i) Linear correlation (iii) Mean	ationship between two sets of scores or shically by a straight line (ii) Graphical representation (iv) Mode	
7	Identify the formula used to complarge sample Q3-Q1 (i)	pute the standard error of the mean in a Efe (ii) N	
	(iii) -j= VN	(iv) None of the above	
8	Name the term used to denote the (i) Small sample (iii) Parameter	e sample of 30 cases or More (ii) Population (iv) Large sample	
9	Which gets stated in the course of possible rejection under the assur (i) Alternative hypothesis (iii) Mean	f an experiment, so that it can be tested for mption that it is true? (ii) Null hypothesis (iv) Standard Error	

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Cont...

10	State the level of significance at which if the hypothesis is rejected the
	chances are 99 out of 100 that hypothesis is not true and that only one chance
	out of 100 is true

(i) 5%

(ii) 10%

(iii) 1%

(iv) All of the above

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry EQUAL Marks (5x7 = 35)

11 a Narrate the need and importance of statistics in psychology.

 $\bigcirc R$

b Sketch out the meaning of statistics.

12 a Calculate the Mean, Median and Mode for the following sets of scores.

i. 9 14 8 13 10 10 11 12 10

ii. 20 14 12 14 19 14 18 14

OR

b Show the definition and meaning of the term percentile.

13 a Summarize the meaning and importance of measures of variability.

OR

b State the meaning and types of linear correlation.

14 a State the purpose of sampling

OR

- b Summarize the concept of standard error in computing the significant value of the mean or other statistics.
- 15 a Narrate the need and importance of knowing the significance of the difference between two sample mean.

OR

b Outline the concept of Null Hypothesis.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- Summarize the three main methods of organizing the data.
- In an achievement test, 20 students of a class have scored as

below 12 20 25 15 8 32 28 35 22 44

36 1.7 29 13 9 37 40 21 10 42

Find out the percentile rank of the score 17.

- 18 Enumerate the characteristics and properties of normal curve.
- 19 Elucidate the process of determining the significance of small sample means.
- 20 Elaborate on one tailed and two tailed tests of significance.

Z-Z-Z •

END