Enrollment No:__ Seat No:__

PARUL UNIVERSITY

FACULTY OF ARTS

B.A Summer 2018 – 19 Examination

Semester: 5 Date: 02/05/2019

Subject Code: 15105302 Time: 2:00 pm to 4:30 pm

Subject Name: Statistics in Behavioral Sciences Total Marks: 60

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1112	u u	CUIU	110.

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.

ke suitable assumptions wherever necestric new question on new page.	ssary.		
Do as directed.		(08)	
. Multiple choice type questions. (Eac	ch of 0.5 mark)	(**)	
Understanding statistics is crucial to being able to			
(a) read psychology research articles	(c) doing research yourself		
(b) Both a&c	(d) None of the above		
2 & are two main branches			
(a)Descriptive, inferential	(c)Quantitative, Qualitative		
(b)Research, analysis	(d) All of the above		
	group of scores or otherwise making them more		
understandable.	roup of scores of other wise making them more		
(a) Inferential statistics	(c) Qualitative		
(b)Descriptive Statistic	(d) Quantitative		
4has characteristic that can ha			
(a)Variable	(c)Integer (d)None of the chove		
(b)Score	(d)None of the above		
5. Numeric variable can also be called			
(a) Qualitative	(c) Quantitative variable		
(b) Descriptive Statistic	(d) None of the above		
_	alues are ranks, such as class standing or place finished		
in a race.			
(a)Ratio Scale	(c)Numeric Variable		
(b)Nominal Variable	(d)Rank order variable		
7. A frequency table that uses interval			
(a) grouped frequency table	(c) cumulative frequencies		
(b) percentile	(d)All of the above		
8 variable in which the nu	mbers stand for approximately equal amounts of what is		
being measured.			
(a) Equal Interval Variable	(c)Rank order variable		
(b) Nominal Variable	(d) Ratio Scale		
* *	ation in a frequency table is a kind of bar chart called		
a	1		
(a) Histogram	(c)Pie chart		
(b)Plot	(d)All of the above		
	rimenter thinks they will control behavior		
(a)Dependent Variable	(c)Inductive reasoning		
(b)Independent variable	(d)Deductive reasoning		
11. Branches of statistics includes	(d)Deductive reasoning		
(a) applied statistic	(c) mathematical statistics		
	(c) mathematical statistics		
(b) industry statistic	(d) both a and c		
_	s and control charts which are used to improve process are		
classified as	(~) 11.1.1		
(a) statistical tools	(c) parallel tools		
(b) behavioural tools	(d) serial tools		
13. Which are the types of measures of			
(a) Standard Deviation	(c) Range		
(b) Both a&c	(d) None of the above		

14.____sampling is one that has been hand picked by the investigator to fully ensure that specific

	elements are in	ncluded.		
	(a) Accidental sa	ampling	(c) Purposive sampling	
	(b) quota sampli	ng	(d) None of the above	
	15samples	_	incidental samples	
	(a) Accidental sa		(c) Purposive sampling	
	(b) quota sampli		(d) None of the above	
		•	pplied in order to obtain representative sample.	
	(a) Stratified Rai	_		
	(b) quota sampli	•	(d) None of the above	
B.	Do as Directed (H		· ·	(07)
2.	1. Define Variance		· · · ·	(07)
	2. What is freque			
	3. Give two types	-	Sampling.	
	4. What are level			
			83, 78, 81, 92, 93, 82, 78, 79, 81, 80, 45, 85, 76, 78. Find the	
	mode of this		00, 70, 01, 72, 70, 02, 70, 77, 01, 00, 10, 00, 70, 70, 1111	
	6. What is hypoth			
	7. Define Non-Pr		alino	
0.2	Answer the follow	• •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			olygon and histogram	(04)
	Explain levels of n		-1,8	(04)
			Score and Discrete Score	(04)
			OR	, ,
C.	Explain stratified r	andom sampli	ng.	(04)
	Answer the follow	_		
A.	Compare Mean, M	ledian and Mo	de in detail	(05)
В.	Students in a class	were given a t	est of quantatitative reasoning. There scores are given below.	(05)
	Tabulate the freque			
	Scores: 40,57,60,5	5,61,63,43,46,	48,52,38,33,34,42,51,56,60,62,64,30,51,50,47,57,35,59,46,52,36	
			1,34,37,36,60,39,50,54,47,45,32,35,38,56,59,37,51,55,46	
C.	Draw a Histogram	for above data	l.	(05)
			OR	
C.	Compute the Mean	and median f	or the following table	(05)
	Class Interval	Frequency		
	60-64	1		
	55-59	4		
	50-54	7		
	45-49 40-44	9 12		
	35-39	8		
	30-34	5		
	25-29	3		
	20-24	1		
0.4	Answer the follow	ving.		
	Where and why co		sed?	(06)
			e. Explain Skewness and kurtosis.	(06)
			assumed mean method for the given data	(06)
	XY	C	C	, í
	15 60			
	25 70			
	20 90			
	30 50			
	35 50			
			OR	
C.	Find correlation us	sing Spearman	Rank correlation from the given data.	(06)
~•	XY	-0 - P		(50)
	80 82			
	45 86			
	55 50			
	56 48			