Seat No:		Enrollment No:
	RUL UNIVERSITY	
]	FACULTY OF ARTS	
B.Arts V	Winter 2019 –20 Examination	
Semester: 5 Subject Code: 15105302 Subject Name: Statistics in Behavioral Scier	nces	Date: 21/11/2019 Time: 2.00 pm to 4.30 pm Total Marks: 60
Instructions:		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necess	ary.	
4. Start new question on new page.		
O.1. Do as directed		(08)
Q.1 Do as directed.  A. Multiple choice type questions. (Each	of 0.5 mark)	(08)
1. Understanding statistics is crucia		
(a) read psychology research	(c) doing research yourself	
articles	(c) doing research yoursen	
(b) Both a&c	(d) None of the above	
2& are two main branche	* /	
(a)Descriptive, inferential	(c)Quantitative, Qualitative	
(b)Research, analysis	(d)All of the above	
3. Procedures for summarizing a	group of scores or otherwise m	naking them more
understandable.		0
(a) Inferential statistics	(c) Qualitative	
(b)Descriptive Statistic	(d) Quantitative	
4. has characteristic that can h	ave different values.	
(a)Variable	(c)Integer	
(b)Score	(d)None of the above	
5. Numeric variable can also be called	d	
(a) Qualitative	(c) Quantitative variable	
(b) Descriptive Statistic	(d) None of the above	
6. numeric variable in which the v	alues are ranks, such as class s	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 interva		
(a) grouped frequency table	(c) cumulative frequencies	
(b) percentile	(d)All of the above	
8. variable in which the nu	mbers stand for approximatel	v equal amounts of

what is being measured. (a) Equal Interval Variable (c)Rank order variable

(b) Nominal Variable (d) Ratio Scale

9. One kind of graph of the information in a frequency table is a kind of bar chart called a\_

(a) Histogram (c)Pie chart (d)All of the above (b)Plot

\_are chosen because an experimenter thinks they will control behavior 10.

(c)Inductive reasoning (a)Dependent Variable (b)Independent variable (d)Deductive reasoning

11. Branches of statistics includes

(a) applied statistic (c) mathematical statistics

(b) industry statistic (d) both a and c

a	re classified as			
	(a) statistical too	ols	(c) parallel tools	
	(b) behavioural t	tools	(d) serial tools	
1	3. Which are the	types of meas	sures of Variability	
	(a) Standard Dev	viation	(c) Range	
	(b) Both a&c		(d) None of the above	
			s been hand picked by the investigator to fully ensure that	
S	pecific elements		( ) P	
	(a) Accidental sa		(c) Purposive sampling	
1	(b) quota sampli	_	(d) None of the above s incidental samples	
1	(a) Accidental sa		_	
			(c) Purposive sampling	
1	(b) quota sampli	•	(d) None of the above applied in order to obtain representative sample.	
-	(a) Stratified Ra	_		
	(b) quota sampli	-	(d) None of the above	
В. І	O) quota sampi Do as Directed (H			(07)
	. Define Variano		· <del></del> /	()
	2. What is freque			
	Give two types	•		
	What are level		ent? 33, 85, 81, 92, 93, 82, 78, 79, 81, 80, 82, 85, 76, 85. Find the	
٥	mode of this		55, 65, 61, 72, 75, 62, 76, 77, 61, 60, 62, 65, 70, 65. Thid the	
6	5. What are the le		rement?	
	. Define Non-Pr			
_	Answer the follow	_		
			lygon and histogram	(04)
	Explain levels of n		Score and Discrete Score	(04) (04)
<b>C.</b> I	on the control of the control		OR	(04)
<b>C.</b> E	Explain stratified r	andom samplir	ng.	(04)
	Answer the follow			(O.E)
	Compare Mean, M		est of quantatitative reasoning. There scores are given below.	(05) (05)
	Tabulate the frequency			(03)
		•	48,52,38,33,34,42,51,56,60,62,64,30,51,50,47,57,35,59,46,52,36	
			,34,37,36,60,39,50,54,47,45,32,35,38,56,59,37,51,55,46	
<b>C.</b> I	Draw a Histogram	for above data		(05)
$\mathbf{C}$	Compute the Mear	and median fo	OR or the following table	(05)
<b>.</b>	Class Interval	Frequency	inc following table	(05)
	60-64	1		
	55-59	4		
	50-54	7		
	45-49	9		
	40-44	12		
	35-39	8		
	30-34	5		

12. Procedures of descriptive statistics and control charts which are used to improve process

25-29	3
20-24	1

## Q.4 Answer the following.

A. Where and wh	y correlation are used?	(06)
A. Which and Wh	ty correlation are asea.	(00)

(06)

B. What is Normal Probability curve. Explain Skewness and kurtosis.C. Find correlation using Person's assumed mean method for the given data

ŀ	ind o	correl	ation	using	Person's	assume	d mean	method	for the	given o	data
	X	Y									
	15	60									
	25	70									
	20	90									
	30	50									
	35	50									

## OR

C. Find correlation using Spearman Rank correlation from the given data.

X	Y
80	82
45	86
55	50
56	48
58	60
60	62

(06)

(06)