Enrollment No:_____

PARUL UNIVERSITY

FACULTY OF ARTS

M.A. Summer 2018 – 19 Examination

	M.A. Summer 2018 – 19 Examinat	tion					
Semester:4		Date:15/04/2019					
Subject Code:15203254 Time:10:30AM TO							
Subject Name: Experimental Desi	gn and Quantitative Analysis	Total Marks: 60					
Instructions:							
1. All questions are compulsory.							
2. Figures to the right indicate full m	arks.						
3. Make suitable assumptions where							
4. Start new question on new page.	5						
Q.1 Do as directed.		(08					
A. Multiple choice type question	s. (Each of 0.5 mark)	• · · ·					
	try to partial out the side effects if any	y, which is this technique.					
(a) Analysis of co variance	(c) Multivariate ANOVA						
(b) MANOVA	(d) both (b) and (c)						
2. The Kruskalwallis test is	also known as?						
(a) F test	(c) H test						
(b) Run test	(d) $t - test$						
3. With a randomized block	design, the experimenter divides subj	ects into subgroups called					
	ty within block is than th						
(a) More than	(c) All of above						
(b) Equal	(d) Less than						
4. Form the option given belo	w which one is known as standard sco	pre?					
(a) z- score	(c) stanine score						
(b) t- score	(d) All of the above						
5. The canonical correlation i	s a analysis of correlation.						
(a) Bivariate	(c) Univariate						
(b) Multivariate	(d) None of the above						
6. MANOVA means?							
(a) Multivariate analysis of va	ariable						
(b) Multivariate analysis of c	o – variance						
(c) Multivariate analysis of v	ariance						
(d) None of the above							
	ins objects to group among	a number of groups.					
(a) one	(c) three						
(b) two	(d) four						
8. Latin squares are a special	case of <u>row- column designs</u> , for two	blocking factors.					
(a) False, True	(c) True, False						
(b) True, True	(d) False, False						
	cal method used to describeam	nong observed, correlated					
variables.							
(a) Variability	(c)both (a) and (b)						
(b) Reliability	(d) None of the above						
	oncordance is used to calculate on wh	ich scale?					
(a) Ratio scale	(c) both (a) and (b)						
(b) Nominal scale	(d) None of the above						
11. When testing for randomn							
(a) Sign test	(c) Mann- Whitney U test						
(b) Run test	(d) None of the above						
12. Spearman's rho and Kenc variables.	all's tan are used to examine the relat	ionship between					
(a) Integral	(c) Ratio						
(b)Categorical	(d) ordinal						
13.In normal curve mean, me	dian and mode are						
(a) Different	(c) both (a) and (b)						
(b) Same	(d)None of the above						
14. In regression analysis the	re are types of variables.						
(a) 1	(c) 2						

Seat No:_____

1 ((1 ((a) 0.0 (b) 0.5				vention (c) (d)	both (a None o (c) 0 t	nosen a a) and (of the a	s (b) bove						
B. 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ferms/ 1. De 2. De 3. De 4. De 5. De 5. W1 7. W1	Short notes/ fine Biserial. fine Point Bi fine correlati fine raw scor fine experim rite a formula rite a formula r the followin	iserial. ion. re. ental de of chi of ran	esign. – squar	re test.				Each of	01 ma	rk)			(07)
		n sign test	C											(04)
	B. Short note on normal probability curve											(04)		
C. A	A one	rupee coin is	tossed	in the a	ir 100 t	times a	nd the 1	recorde	d result	s of the	esw 100	throws	5	(04)
i	C. A one rupee coin is tossed in the air 100 times and the recorded results of thesw 100 throws indicate 40 heads and 60 tails. Using the chi square test find out whether this result is better than													
"mere" chance.														
							OR							
C. I	Explai	n test of signi	ificance	e										(04)
A. T	Q.3 Answer the following.A. There are two items X and Y in a test which were responded by a sample of 200, given in the 22 table, computer the phi coefficient of correlation between these two items, given in the following										(05)			
t	able:													
			_	Item 2			_							
				Yes	No		То							
	Yes			55	45		10							
	No			35	65		100							
	Total			90	110		200							
		n MANOVA												(05)
		are two section												(05)
		nt question p												
		nt of section		50. Can	you sa	y which	h of the	se two	student	s stand	better i	n terms	of	
8		ement in Mat	ths ?											
		Section A						Section						
		Mean = 70						lean = 1						
		S.D. = 20						S.D. = 1	0					
							OR							
		n discriminar		sis.										(05)
		r the following												
А.	Find t	he rank corre	1		1	1		-		<u> </u>		-		(06)
		Individual	А	В	С	D	E	F	G	Η	Ι	J	Κ	
	(X)	Marks in	80	45	55	56	58	60	65	68	70	75	85	
		history								1				
	(Y)	Marks in	82	86	50	48	60	62	64	65	70	74	90	
		civics												
		n Qualitative												(06)
		ite tetra chori									ment ar	nd job s	uccess,	(06)
the data was obtained in 2×2 table as shown in the following representation.														
X variable														
				Success		Fail			tal					
	Adjusted			25				60						
Maladjusted				20 40				60						
Total 45 75 120														
							OR							

OR

C. Explain Randomized Block design

(06)