Name:

Enrolment No:

Course Code: HSCR2022



UPES

End Semester Examination, May 2023

Course: Biostatistical Methods in Clinical Research Program: Int. B. Sc- MSc Clinical Research Semester: IV Time: 03 hrs. Max. Marks: 100

							TION A						
	Tre stress of the					-	=20Ma	rks)				Maulta	CO
Q 1	Instructio							of cal	ulation	two it	ame ara	Marks	CO
ŲΙ	wrongly ta	· ·										4	CO2
Q 2	Evaluate c		ent of v $n = 10$							s:		4	CO2
Q 3	Define the a. Null hy d. Degree	follow pothesi of free	ring: s b. dom	Altern	ate hyp	oothesi	s c. L	evel of	f signifi			4	CO4
Q 4	From the mean. Marks No. of stu		10 2	0 25	40	ibution 50 5	, comp	oute th	e value	e of ha	armonic	4	C01
Q 5	Use appro a. Positive c. Partial a e. Rank co	and N and tota	egative l correl	correl	ation	b. Sim d. Line	ple and ear and	non-lii	ple corr near co			4	CO3
							FION I						
							= 40 M					1	
	Section B											Marks	CO
Q 6	Obtain the estimate the coefficient	t of cor	d pressure relation	ure (BI		n the ag 47	ge (in y	rears) is	s 50. H	ence fi	nd the	10	CO3
Q 7	Following	are the	scores	of ten	studen	its in a	class a	nd thei	r IQ:				
	Students	1	2	3	4	5	6	7	8	9	10		
	Scores	35	40	25	55	85	90	65	55	45	50	10	CO3
	I.Q.	100	100	110	140	150	130	100	120	140	110		
	Calculate	Spearm	an's co	efficie	nt of ra	ank coi	relation	n.					

Q 8	Apply step dev recorded on th								ation fr	om th	e data		
	No. of pods	15-	18-	21-	24-	27-	30-	33-	36-	39-	42-	10	CO2
	per plant	17	20	23	26	29	32	35	38	41	44	10	02
	No. of	2	2	4	5	7	9	6	4	3	2		
	plants												
Q 9	Represent the families:	follow	ving da	ta by a	ı pie-d	iagram	show	ing fan	nily bu	dget o	f two		
	Items of exp	enditu	ıre		Fam	ily A			Fam	nily B			
	Food					00				200			
	Clothing				80	00			12	200			
	House Rent				12	00			21	00			
	Fuel and Elec		/		80	00			1(000			
	Miscellaneou	IS				00				00		10	CO1
	Total				50	00			7(000			
	median is 30.Marks0-No. of10Students		10-20 ?) 20	0-30 5	30-40 30	0 4	0-50	50-6 10		Total 00		
						SECTI 20M=4							
	Section C con	tains	2 ques	tions.	Q11 h	as inte	ernal o	choice				Marks	CO
Q 10	The following chlorine conce of variance and	entrati	on in l	ake wa	ater. A								
	Chlorine				A	cidity	level]		
	Concentration	n	Low	Ν	<i>l</i> ediun	1	Higl	1	Very l	High		20	CO4
	Low		22		19		9		7		4		
	Medium		11		11		8		4				
	High		9		10		6		4				
	Tabulated valu	les: $F_{(}$	2,6) =	5.14 a	and $F_{(3)}$	_{3,6)} = 4	4.76 at	5% le	vel of s	signifi	cance.		

	No. of patients favorable	Not favorable	Total		
Smokers	75	105	180		
Non-Smokers	25	95	120		
Total	100	200	300		
		OR			
Two types of dry	as were used on 5		raducing the	r woight	
Drug A is import	gs were used on 5 a ed and drug B indi months was as follo	and 7 patients for genous. The decr			
Drug A is import the drugs for six	ed and drug B indi months was as follo	and 7 patients for genous. The decr ows:			
Drug A is import the drugs for six	ed and drug B indi months was as follo	and 7 patients for genous. The decr ows:			