LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Com. DEGREE EXAMINATION - COMMERCE

THIRD SEMESTER - **NOVEMBER 2023**

PCO3MCO2 - BUSINESS RESEARCH METHODS

	Date: 01- Time: 01:			_	ot. No.						Max.: 1	.00 Marks
				SI	ECTION	A – K1	(CO1))				
	Answer A	ALL the	questions	s							($5 \times 1 = 5$
1	Fill in the	e blanks										
a)	N indicate	es Unive	rse, where	eas n indic	cates	_•						
b)	A is	a definit	te plan for	r obtainin	g a sampl	e from a	given	pop	ulation.			
c)	Quizzes a	and tests	are used to	o collect _	dat	a.						
d)	is used as an abbreviation in citations to indicate 'and others'.											
e)	The purpo	ose of an	extensive	e review o	f literatui	re is to id	lentify	the	·			
				SI	ECTION	A – K2	(CO1))				
	Answer A	ALL the	question	s							($5 \times 1 = 5$
2	State Tru	ie or Fal	se									
a)	Chi-squar	re test is a	a Paramet	ric Test.								
b)	Nominal	Scale is t	he most p	owerful l	evel of m	easurem	ent.					
c)	F-Test is							1 2 p	opulatio	ons.		
d)	Type I Er	ror: The	hypothesi	is is false	but our te	est accep	ts it.					
e)	H-Test is	also call	ed as Sigr	n Test.								
				Sl	ECTION	B – K3	(CO2))				
	Answer a	any THR	REE of the	e followir	ng Questi	ions.					(3 x	(10 = 30)
3	What are	the techn	niques inv	olved in o	defining a	Researc	h Prob	olem	?			
4	Distingui	sh betwee	en Depen	dent and l	Independe	ent varia	bles w	ith s	uitable	examples	S.	
5	Highlight	the signi	ificance o	f SPSS in	research							
6	Calculate	Karl Pea	arson Co-	efficient c	of Correla	tion fron	n the fo	ollo	wing da	ta:		
	X	X 9		7	6		5	4		3	2	1
	Y	15	16	14	13	3	11		12	10	8	9
7	Calculate	the Rank	c Correlat	ion of top	stocks in	n NSE &	BSE:					
	Stocks	A	В	C	D	E	F		G	Н	I	J
	NSE	8	7	6	3	2	1		4	9	10	5
	BSE	10	8	5	2	1	3		6	9	7	4
				Sl	ECTION	C – K4	(CO3))				
	Answer a	ny TWO	O of the f	ollowing	Question	ıs:					(2 x 12	2.5 = 25)
8	Explain il	llustrativ	ely, any fi	ve types	of researc	h widely	used	in S	ocial Sc	iences.		
9	Analyse t	he proble	ems encou	ıntered by	the Rese	earchers	in Indi	a.				
10	Runs scor	red in IPI	L by the A	All-rounde	ers in thre	e teams	during	the	year 20	22-23 are	e given bel	ow:

Team A: 280, 283, 279, 285, 290, 268

Team B: 282, 284, 260, 272, 286, 267, 291

Team C: 293, 265, 277, 278, 288

Using the Kruskal-Wallis H Test, to determine at 0.05 level of significance, whether the three teams are equally effective in terms of performance of the IPL All-rounders.

(Given for v2, X^2 _{0.05}=5.991)

Loyola College Management seeks your opinion to check whether there is a difference between the number of absentees in the School of Commerce, before and after Mentoring. Use the sign test @ 5 % level of significance and comment.

Before	120	118	134	135	170	112	123	128	114	145	178	127	125	161	166
After	132	129	113	122	127	173	190	151	157	124	127	183	190	128	166

SECTION D – K5 (CO4)

Answer any ONE of the following Questions:

 $(1 \times 15 = 15)$

- 12 Elucidate the layout of a Research Report and narrate the steps involved in writing it.
- 13 Chennai Readymade Stores is interested in knowing the demand for four Shirt brands during three festival seasons based on the 2022 turnover. The figures in '000 are given in the following table:

FESTIVAL	Shirt Brands							
SEASONS	LP	VH	CP	BB				
New Year	538	540	541	539				
Pongal	545	542	549	536				
Diwali	540	538	542	542				

You are required to perform ANOVA and ascertain, whether there is any significant difference between Shirt Brands and Festival Seasons.

(Given, v1=3 and v2=6 d.f $F_{(0.05)}=4.76$ & v1=2 and v2=6 d.f $F_{(0.05)}=5.14$)

SECTION E – K6 (CO5)

Answer any ONE of the following Questions:

 $(1 \times 20 = 20)$

The given data represents the shelf life (in days) based on a Sample Survey of four different health drinks. Using ANOVA, ascertain at 5% level of significance (Given F_{0.05}=3.24), is there evidence of a difference in the average shelf life of the four health drinks.

Health Drink A	Health Drink B	Health Drink C	Health Drink D
199	202	202	197
201	197	200	201
199	202	200	200
200	202	200	201
202	200	198	199

15 From the First Generation IT Professionals of seven major cities in South India, random samples were taken and stated below. Can it be said that there is a significant variation among the First generation IT Professionals in select major cities in the tendency to buy a house?

Seneration 11 1 to testionals in select major office in the tendency to only a notice.										
Cities	A	В	C	D	E	\mathbf{F}	G			
Independent	170	285	165	106	153	125	146			
House										
Flats	40	125	35	37	55	35	33			

(Given for v=6 $X^2_{0.05}$ =12.6)

&&&&&&&&&&&