Q.P. Code :19500

[Marks:60]

			eck whether you have got t	he right questic	n paper.		
	N.B:	-	estions are compulsory.				
		•	es to the right indicates full				
		3. Draw	neat and labelled diagrams	wherever neces	ssary.		
Q.1 a)	What do y	you mean by t OR	the term Ethics? Explain the	need for ethics	in research.	12	
a)	Describe	_	s Code for research.			06	
b)	Explain the different categories of research with suitable examples.						
Q.2 a)	Which are the different methods of data collection? OR						
a)	Write a n	ote on differe	nt types of sampling?			06	
b)	Which are	ich are the different methods of data collection?					
Q.3 a)	What is cluster analysis? What is the role of factor analysis and discriminant analysis over cluster analysis						
	_, ,	OR					
Q.3 a)	The study was to determine if there were differing levels of the anticardiolipin antibody IgG in subjects with and without thrombosis						
	in subject						
		Group	Mean IgG levels (ml/unit)	Sample size	Standard deviation		
	Т	'hrombosis	59.01	53	44.89		
	No	thrombosis	46.61	54	34.85		
	We wish	to know if we	may conclude on the basis	of these results	that in general persons		
	with thro	mbosis have o	on the average higher IgG le	vels than perso	ns without thrombosis.		
b)	Which qualities should be noted for formulating hypothesis?						

[Time: 2:30 Hours]

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Q.4 a) To study the difference in CD4 cell response in patients, 2 treatments and plasma were given to the subjects.

% change in CD4	Treatme	Plasma
-12.60	1	1
-14.60	2	1
28.10	2	1
77.30	1	2
-0.44	1	2
50.20	1	2
48.60	2	2
86.20	2	2
205.80	1	2
100.00	1	2
34.30	1	2
82.40	1	2
118.30	1	2

Can one conclude that there is interaction between treatment and plasma levels? (Let a=0.05)

OR

- Q.4 a) Explain with example the difference between exploratory and descriptive research.
 b) Explain the concept of partial and multiple regression
 06
 06
- Q.5 Write short notes on (any three):
 - i) One way ANOVA
 - ii) Applications of Chi-square test
 - iii) Need for report writing in research.
 - iv) Steps in research process.
 - v) Types of errors in hypothesis
 - vi) Difference between a research report and research proposal
