A		Reg. No. :												
		Question	Pape	r Cod	e: U	<b>3C</b> (	)6							
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024														
			Third	Semest	er									
		Computer Sc	ience a	and Bus	iness	Syst	ems							
		21UCB306- CO	MPU	ΓΑΤΙΟΙ	NAL S	STA	ГIST	TICS						
		(I	Regula	tions 20	)21)									
Dura	ation: Three hours							Ma	axim	um:	100 N	/Iark	S	
		Ans	wer A	LL Que	estion	s								
		PART	A - (10	x 1 = 1	10 Ma	arks)								
1.	The Shape of the no	ormal curve is		·								С	:01- U	J
	(b) Flat	(c) Circular		(b)	Rect	angle	e		(c) a	ull of	the a	.bove	e	
2.	The value of consta	nt 'e' appearing	in norı	nal dist	ributi	on is		·				С	:01- U	J
	(b) 2.7836	(c) 2.1783		(b)	3.78	36			(c)	-2.1	783			
3. How many types of discriminant analysis are there?										С	:01- U	J		
	(a) 0	(b) 1		(c)	2				(d)	3				
4.	What are alpha and	beta in LDA?										С	:01- U	J
	(a) objects	(b) class		(c) p	baram	eters			(d	) all	of the	e abc	ove	
5.	PCA is used to find	•										С	:01- U	J
	(a) Relationship between components			(b) l	(b) Linear regression									
	(c) Linear relation			(d) ]	Inter r	elati	on							
6.	There are type type type type in Machine Learnin	-	l Learr	ning alg	orithr	ns us	ed f	or cla	assifi	catio	n	C	:01- U	J
	(a) 2	(b) 3		(c)	4				(d)	5				
7.	What will be the ou	tput of the follow	ving P	ython ex	xpress	sion	if x=	=56.2	36?			С	01- U	J
	print("%.2f"%x)													
	(a) 56.236	(b) 56.23		(c)	56.0	000			(0	l) 56	.24			

8.	Which of the following character is used to give single-line comments in Python?						CO1- U		
	(a) /	//	(b) #	(C) !	(d) /*				
9.	In tl	ne client server mode	el of the cluster _	approach	is used.	(	CO1- U		
	(a) l	Load configuration	(b) FIFO	(c) Bankers algo	orithm (d	) Round robir	1		
10	A si	ngle shared cluster n	e shared cluster must have exclusive use of itsservers.						
	(a) local (b) global (c) config (d) n					) none of the a	none of the above		
			PART – B	(5 x 2= 10 Marks)					
11	Write an example of multiple regression? CO								
12	How does discriminant function support classification? CO3- A								
13	What is the application of factor analysis? CO1-								
14	What libraries are available in the Python Standard library?								
15	5 What is meant by hierarchical clustering?						CO1- U		
			PART –	C (5 x 16= 80 Ma	rks)				
16	(a) Briefly Describe about Multiple linear Regression ?					CO1- U	(16)		
Or (b) What is linear regression? Explain the different relationship of linear CO1- U									
	(b)	regression?	ession? Explain	the different relation	onship of finear	01-0	(16)		
17	(a) To solve Linear Discriminant function analysis					CO2- App	(16)		
	$C1 \Rightarrow X1 = (X1, X2) = \{(4, 1), (2, 4), (2, 3), (3, 6), (4, 4)\}$ $C2 \Rightarrow X2 = (X1, X2) = \{(9, 10), (6, 8), (9, 5), (8, 7), (10, 8)\}$								
	(b)	Explain in detail ab	Oi out algorithms o		nt analysis.	CO1- U	(16)		
	(0)		o <i>ur ing</i> oriums e				(10)		
18	(a)	What are the Alanalysis?	-		oal component	CO1- U	(16)		
	( <b>b</b> )	Discuss about how	Or many stans invo		voic model?	CO1- U	(16)		
	(b)	Discuss about how	many steps mvc	niveu ill factor allal	y515 11100Cl (	01-0	(16)		
19.	(a)	Explain in detail ab	out Python Inter Or		n execution?	CO1- U	(16)		
	(b)	Discuss about State	ments and Expr	essions?		CO1- U	(16)		

20.	(a)	Explain in detail about Clustering and its Methods?	CO1-U	(16)
		Or		
	(b)	Briefly discuss about Partitioning clustering?	CO1-U	(16)

## U3C06