USN						
0011	1 1	- 1			 	



	Name of the second section of the sect	In	ternal Assesment I	Cest - II			1 - 1		24MBA	104
Sub:	BUSINESS STATISTICS . Code:									
Date:	27-03-2025 Dura	ation: 90 m	nins Max Marks:	50	Sem:	I	Branch	:-	MBA	1
		PROPERTY TO COMMANDE THE SECTION OF	SET - III	CONTROL OF THE PRESENCE OF THE					OI	
	The second designation of the second									RBT
							N	1arks	CO	
	Part A - Answer A	ny Two Full (	Questions ( 2* 20 =	40 mar	·ks)			to the state of th		
	A man wants to marry of getting such a girl 1/50; manners and sty his getting to such independent.	y a girl having is 1/20; hands	g qualities: white co some dowry- the pro- ility here is 1/100. I	mplexions bability indicates the contraction of the	on- the j y of get t the pro	babi	this is lity of	[03]	CO3	L3
(b)	Outline the case and s A coin was tossed s support the hypothesi	900 times and	l head appeared 49 is unbiased?	0 times	s. Does	the	result	[07]	CO3	L4
								[10]	CO4	L3
(c)	Examine and Obtain Apply Chi-square tes effectiveness of inocu	t to find out if alations.	the following figure  Not-attacked		de evid	ence	of the		***************************************	
		Attacked	300		320					
	Inoculated	20 80	600		680					
	Not Inoculated	100	900	1	.000					
	Total	100	700							
2 (a)	From a pack of pla	aying cards, o	ne card is drawn	at rand	om. Ca	lcula	ite the	[03]	CO3	L3
	probability that it is e	either a Queen	or a club.					[07]	CO4	L3
(b)	Solve the case.  A random sample of employees were ask whether the employed hours. The following	ed to complet	te a questionnaire.	ction of	f flexibl	e wo	orking			
	i.e., male or female.		Ger	nder						
	Response		Male		Femal	e				
	In favour		57	6	83					
	NI-4 in formur		33		27					B 6 10 10 10 10 10 10 10 10 10 10 10 10 10
	Test whether there is and gender.	s evidence of a	significant associa	tion bet	ween th	e res	sponse	[10]	CO4	L4
(c)	Outline the case.  An automatic machinand S.D. 1gm. A rantheir mean weight was	dom sample of	of 50 tins was exam	iined ai	iu ii wa	S IOU	of 1kg and that	[.~]		

				. (12	5	
3 (a)	Infer the term Hypothesis			1	4	
(b)	Summarize the data and	compute the Statistical Tax		[03]	CO4	-
			st value by using Chi Squar		CO4	L5
	The theory predicts that to 9:3:3:1. In an examination 882, 313, 287 and 118. Do	e e				
	Judge the case. Electric bulbs manufacture	d by X and Y companies g	ave the following results:	[10]	CO4	L5
	No. of bulbs used	X Company	Y Company			
		100	100		THE STATE OF	
	Mean life in hours	1300	1248		dentia e i i i be qualifici	troffing the way
	S.D in hours	82	93		· · · · · · · · · · · · · · · · · · ·	
a a	Jsing the standard error of any significant difference in	the difference between me the mean life of the two me	eans state whether there is akes.	THE	PARKETONISTINIA MARKATAN TANASTAN AND AND AND AND AND AND AND AND AND A	Districts Communication
F	Part B - Compulsory (01*)	10=10 marks)		V a beautifunction		
	Case Study	,		THE STATE STATES		
	nalyze the case given below			[10]	CO4	L4
	a test on 2000 electric bull	bs, it was found that the life	e of a particular make was	11.1.10(1)(4)	THE PROPERTY OF THE PERSON	HOW AND THE PERSONS

	Course Outcomes (COs)	P01	P02	PO3	P04	P05	PS01	PS02	PS03	PS04
CO1:	Understand how to organize, manage, and present the data.		1							
CO2:	Use and apply a wide variety of specific statistical tools.		**************************************	PROPERTY OF THE PROPERTY OF TH						
CO3:	Understand the applications of probability in business.				1a, 1b, 2a		1a, 1b, 2		***************************************	
CO4:	Effectively interpret the results of statistical analysis.	1c, 2b, 2c			3a, 3b, 3c,		3a, 3b, 3c,	lc , 2b		
CO5:	Develop competence of using computer packages to solve the problems.	***************************************			4			, 2c		

normally distributed with an average life of 2040 hours and S.D. of 60 hours. Estimate the number of bulbs likely to burn for (i) more than 2150 hours, (ii) less

than 1950 hours and (iii) more than 1920 hours but less than 2160 hours.

Cognitive level	KEYWORDS
L1 - Remember	list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where, etc.
Understand	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate in
L3 - Apply	calculate, predict, apply, solve, illustrate, usc, demonstrate, determine, model, experiment, show, examine, modify



INSTITUTE OF **TECHNOLOGY** 

## SCHEME OF EVALUATION Internal Assessment Test 1 - MAR 2025

						Code	MBAIDH
Sub: Prince CS	9.7	ATIC	217	5		Code:	MAKION
POSINO E 25			, , , , ,				
		Max		Sem:	1	Branch:	MBA
Date: 27/3/2 \to Duration:	00	Marks:	50	Sem.	<u>·</u>		
Date: 271312 — Duration:	90mins	Maiks.					

Note: Part A - Answer Any Two Full Questions (20\*02=:40 Marks)

Part B - Compulsory (01\*10= 10marks)

Part	Question #		Description	Marks Distribution	n	Max Marks
		a)	$R = \frac{1}{20} \times \frac{1}{50} \times \frac{1}{100}$ $= \frac{1}{100000}$	3 M Gosect Aswes	3	
<b>A</b>	1	b)	TEDY Son specifical proportion  H=0.5 ; H, \$\pm 0.5 \]  Z = 2.65 \]  Cv Tv  2.65 \]  Ho is Rejected. Where	1 & 800 1 & 800 5 & 800 8 4 6 8 7 8 4 8 800	7	20 M
			0:20 300 80 60	8 m 30 m 2 m 30 m 2 m 30 m	10	

CU 7.34 / 3.8A1

of snoculations.



	a)	E (auce on a colub)  = 4  = 12  = 4  = 4  13	2 M 300 Ayong	3	
2	b)	3.49 (3.84)	6 mz	7	20 M
	c)	10: M=1000 H.: M \$ 1000 Z = 3.536 CV TV 3.536 ) 1.96 Ho is Rejected Medine is not coording reperty	8 m sor 5 de ps 2 m sor consider	10	

	a)	Hypothesis  Set as ascumption  to prove state-  trady		3	
3	b)	0:882 313 287 118 E: 900 300 300 100 D: S = L-1 = 3 X <sup>2</sup> = L-7 2 Ho is Accepted C: 7.85	800 300 200	7	20 M
	c)	Z = 4.194	sures	10	

