Can it be concluded the	hat the average life	span of an Indian is more than 70 years if	
	_	= -	
_		span or the joint min sundand	
		protein from cow's milk & buffalo's milk.	
	<del>                                     </del>		
milk			
Random samples of 2	220 students in a co	ollege were asked to give opinion in terms	
_	_		
I	IIIrd		
year	year		
Yes 43 20	37		
No 23 57	40		
Test whether there is	any association bet	tween opinion and class in college using	
$\chi^2$ -test (use 5% LOS			
,	,		
A random sample of 5	50 items gives the 1	mean 6.2 and standard deviation 10.24.	
D: (A   5   6   0   1		( 10	
DietA:   5   6   8   1	1   12   4   3   9   6	0   10	
DietB 2 3 6 8	3 10 1 2 8		
		9 -	
	e in weight (gms)	. Does it show superiority of diet A over	
	1 1 10		
•	•	-	
independence at 5% le	evel of significance	e & write your conclusion.	
Performance	Good Not	Total	
	good		ļ
Trained	100 50	150	
Untrained	20 30	50	
Total	120 80	200	
	·		
A random sample of 4	400 items gives the	mean 4.45 & variance 4. Can it be	
regarded as drawn fro	om a normal popula	ation with mean 4 at 5% level of	
significance?			
Sandal powder is pacl	ked into packets by	a machine. A random sample of 12	
0.5 kg	-		
	a random sample of 1 deviation of 8.9 years The following table g Examine if these differ Cows milk: 1.90 Buffalos 2.12 milk Random samples of 2 of yes or no about the following data are colonical states are colonical s	a random sample of 100 Indians has ave deviation of 8.9 years?  The following table gives the values of paramine if these difference are significated. Cows milk: 1.90   1.95   2.00   2.00    Buffalos   2.12   2.00   2.20   2.45    Buffalos   2.12   2.00   2.00   2.00    Buffalos   2.12   2.00   2.00   2.00    Buffalos   2.12   2.00   2.00   2.00    Test whether there is any association bether and the second of th	The following table gives the values of protein from cow's milk & buffalo's milk. Examine if these difference are significant.    Cows milk   1.90   1.95   2.00   2.02   1.85   1.80     Buffalos   2.12   2.00   2.20   2.45   2.20   2.10     milk   Random samples of 220 students in a college were asked to give opinion in terms of yes or no about the winning of their college cricket team in a tournament. The following data are collected.    Class in college   Ist year   Ilind   IllIrd   year   year   year     Yes   43   20   37   No   23   57   40    Test whether there is any association between opinion and class in college using χ²-test (use 5% LOS)    A random sample of 50 items gives the mean 6.2 and standard deviation 10.24. Can it be regarded as drawn from a normal population with mean 5.4 at 5% LOS?    DietA:   5   6   8   1   12   4   3   9   6   10     DietB   2   3   6   8   10   1   2   8      A group of 10 rats fed on diet A & another group of 8 rats fed on diet B recorded the following increase in weight (gms). Does it show superiority of diet A over diet B ?    In an industry 200 workers employed for a specific job were classified according to their performance & training received to test independence of training received & performance. The data are summarized as follows. Use χ²-test for independence at 5% level of significance & write your conclusion.    Performance   Good   Not   Total   good   Total   120   80   200

3	_	gate the ass							eye co	olor i	in fat	her d	& son	fror	n	
	the folio	owing data	usın	g χ -te	est (u									_		
		sons				Cole	or of		ers ey Dark			-	Γotal	_		
		Color of sons eye	Dark						48	90	)		138			
		ပိ	Not Tota						80 128	78 87			362 1000			
1 1	held at	lowing date the beginn we coaching	ing o					ner a	•							
				TestI TestII	19 17	23 24	16 20	24	20	18 22	20	18 20	18	19 22	18	
2	A samp	data indica le of 50 pi a turned ou aving a me	eces of	of certa e 14.5 <sub>j</sub>	in ty <sub>l</sub> poun	pe of ds. T	strin est w	g wa heth	s test er the	ed. T	The name	nean is fro	m a l	batch	n of	
3			e die i	s unbia	used i	using 5	$\chi^2$ -1		use 5			bser	ved T	Test t	he	
A1 1	of 36 gi	erage of ma rls is 70 w s perform l	ith sta	ındard	devia	ation										
2	_	sam I 8	• •		34 24 ctric	bulb		tion 5 ) ere to			_	•				
3	sample:	means is s  mber of car  9,16, &8 pe	ignific	cant.	n a m	etrop	olita	n city	y was	s fou	nd to	be 1	9, 17	7, 12,		
	frequen	cies are in aring 10 m	an ag	reemer	nt wit	th the	beli	ef tha	at occ	curre	nce o				s the	

A2							
1	Two groups A	& B of pa	atients eac	h consist	ing of 200 r	people are used	to test
	effectiveness of	-			•	•	
	found that mean						
	standard deviati	,					
	serum helps to			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 1050 00 17	0 <b>2</b> 0 % (	10 110 11
2	Nine items of a			lowing v	alues 45.47	50.52.48.7.49.5	3.51 Does
	the mean of 9 it	ems diffe	er significa	antly from	m the assum	ned population n	nean 47.5?
3	A total number						•
	a political propo						
	2257 individual						
	of 243 men wer						
	justify on contra	adict the	hypothesis	s that the	re is no asso	ociation between	n sex and
	attitude, using $\lambda$	<sup>2</sup> -test a	t 5% LOS				
A3							
1	Two samples d	rawn fro	m two di	fferent p	opulations	gave the follow	ring results .
	Test the hypoth						
	the populations	is signifi	icant	_			
		Size	Mean	S.D			
	Sample I	125	340	25			
	Sample II	150	380	30			
	Sample II	130	360	30			
2	Ten individual a	are chose	n at rando	m from a	a population	& heights are f	found to be
	63, 63, 64, 65, 6					-	
	of universe is 6						
3	Based on the da	ta below	determine	e if there	is relation b	etween literacy	and
	smoking using					J	
					Smokers	Non-smokers	
			T	iterates	83	57	
					45		
Λ Λ			11.	literates	43	65	
A4	A mon hyere 100	) alaatii -	hulba af	ook of t	vo vvolt 1	arm malras tales	a ot mandam
1	A man buys 100						
	from stock for t		-				
	with S.D of 93						o nrs. Test
	that at 5% LOS	the diffe	erence in t	ne sampl	ie means is	significant.	
2	M	4 C O ·		_ 44 11	1		1: - 4: · C
2	Memory capaci						
	a month. State v						elow
	Before		5 9 3	7 12		4	
	After	12   1	7   8   5	6 11	18   20	3	
	1						
3	A certain drug i						
3	persons with co	ld. Half	of them we	ere given	drug and h	alf of them were	e given the
3		ld. Half	of them we	ere given	drug and h	alf of them were	e given the
3	persons with co	ld. Half of patients	of them we reaction to	ere given	drug and h	alf of them were	e given the

	Helped	Harmed	No Effect	Total	
Drug	150	30	70	250	
Sugar pills	130	40	80	250	On the basis of this data, can it be concluded that the
Total	280	70	150	500	