[A Unit of Vivekananda Vidyavardhaka Sangna Furnal Sangna Furna Sangna

CONTINUOUS INTERNAL EVALUATION- 2

Dept: AI/CD/CS					Sem / Div: III/				Sub: Mamerianes 101				S Code: BCS301			
					AI/CD/CS- A & B				Computer Science Max Marks: 50				Elective: N			
Da	ite:	13	8/12/24		Time:	9:30	-11:00 am	l	Max	Mari	ks: 30					
- No	ote	: A	nswer ar	ıy 2 fi	ull que	stion	ıs, choosii	ng one fi	ull q	uestio	n fror	n each	part.	Marks	DRT	COs
Q							Quest	ions						Marks	KDI	UU
							PAR								1.0	CO3
1		State Central Limit Theorem. An unknown distribution has the mean of 90 and the S.D of 15. Sample of size n=25 are drawn randomly from the population. Find the probability that the sample mean is between 85 and 92. $\phi(0.67)=0.2486$, $\phi(1.67)=0.4525$											8	L2	COS	
The state of the s	b	A 83 pc	A random sample of 10 boys have the following IQ 70, 120, 110, 101 83, 88, 95, 98, 107, 100. Does this data support the assumption of a population mean IQ of 100 at 5% level of significance? $(t_{0.05}=2.262 \ for 9 \ d.f)$								1,	8	L2	CO3		
-	C	1				0	1	2	3		4			9	L2	CO3
THE PROPERTY OF		-	No: of heads(x)						-		5		•4			
C) at last		F	requency	y(1)		5	29	36	25			 htoined	Fit			
ALL INCLASSINGS IN ACCOUNTS		4 a	4 coins are tossed 100 times and the following results were obtained. Fit a binomial distribution for the given data and test the goodness of fit. $(\chi_{0.05}^2 = 9.49 \text{ for } 4 \text{ d.f.})$													
	$(\chi_{0.05} = 9.49 \text{ for } + a.j)$								R					L		i
C. 4	2 a	An electrical firm manufactures light bulbs that have a length of life that is approximately normally distributed with the mean 800 hours and S.D of 40 hours. Find the probability that a random sample of 16 bulbs will have an average life of less than 775 hours. $\phi(2.5)=0.4938$.Also state the theorem used to solve the problem.								8	L2	CO3				
Carlo Control	+		A	28	30		32	33 29			34	33		8	L2	CO3
The state of the s		-	B 29			30 30		24	27		29					
A THE PERSON NAMED IN COLUMN STREET, THE PERSON NAM		Two horses A and B were tested according to the time (in seconds) to run a particular race with the following results. Test whether you can discriminate between the two horses. $(t_{0.05} \text{ for } 11 \text{ d.f.} = 2.201)$														
- Company		_	X	0		1		2		3		4		9	L2	CO3
1					2	6	0	15		2		1				
		Fit a Poisson distribution for the following data and test the goodness of fit. Given that $(\chi_{0.05}^2 = 7.815 \text{ for } 3 \text{ d.f.})$														
	PART B									400		L3	CO3			
	3	a In an exit poll, it was revealed that 600 voters in one locality and 400 voters from another locality favoured 55% and 48% respectively a particular party to come into power. Test the hypothesis that there is a difference in the opinion of the locality under 5% level of significance.														
	-	b	School	9		7	6		5		8	•	10	L3	CO4	
	Allbeigh Personal	-	School		7 . 1		4	5.		4		5		7		-7
	Water State of State		School III 6 5 6 7 6						1 Chair	NO PORT	- 1					
	1						TAIL TO THE TAIL THE TAIL TO T									

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CRM08 Rev 1.15 (2024 rev) Fy 12/12/2024

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	one way Analysis	of Variance. Giver	n F(2, 12)=3.88 Engine	low. Carry out the	10	L3	CO
2	Detergent						
		I	II	III	,		
	A	45	43	51			
	В	47	46	52			
	С	48	50	55			
	D	42	37	49			
	Perform a two was whether there are following data. Gi						
_	A sample of 100 h	wed a mean life of	5	L3	CO3		
1				bulbs produced by	5	1.5	003
	a company B show	S.D of 120 hours.					
	Is there difference company at 5% le						
)	Plot of land	A	В	C	10	L3	CU4
	1	6	5	5			
	2	7	5	4			
3		3	3	3			
	4	8	7	4			
	Set a one way a production data for State if there is significance. Give						
	C	В	A	D	10	L3	CO4
c				20			
c	25	23	20				
c	A	D	С	В			
c	A 19	D 19					
C	A	D	C 21	B 18			
c	A 19 B	D 19 A	C 21 D 17 B	B 18 C 20 A			
С	A 19 B 19 D 17	D 19 A 14	C 21 D 17 B 21	B 18 C 20 A 15			

MRPai

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