	Α	В	С	D	Е	F	G	Н	I	J
1	From the da	ta of marks	of students in	test given be	elow, test whe	ther the aver	age marks			
2	of a student is atleast 60 or not at 95% confidence level.									
3	55	65	60	62	63	50	62	75	68	65
4										
5	Solution:- He	re, we have								
6	55	65	60	62	63	50	62	75	68	65
7		Sa	mple size(n)=	10	=COUNT(A	6:J6)				
8			p. Mean (μ)=	60						
9		Samp	le Mean(x*)=	62.5	=AVERAGE	E(A6:J6)				
10		Sa	mple SD(S) =	6.819	=STDEV.S(A6:J6)				
11		Here , we set up Hypothesis as								
12		_	i.e the average							
13		$H1: \mu 2 > 60$	i.e the averag	e marks of a	student is mor	e than 60.				
14		Under H ₀ ,tes	st statistics							
15			$S.E(x^*) =$	2.16	=D10/SQRT	(D7)				
16			$T_{cal} =$	1.159	=(D9-D8)/D	15				
17			C.L.(1- α) =	1.0						
18			(a)=	0.05	=1-D17					
19			d.f. =	9	=D7-1					
20			$T_{tab} =$	1.833	=ABS(T.INV	/(D18,D19))				
21		Decision: - Since $T_{cal} < T_{tab}$, we accept H_0 and reject H_1 with the								
22		conclusion that average m			arks of studen	is atleast 60				
23										
24			Name: Pramo	on Shrestha						

	Α	В	С	D	E	F	G	Н
1	Analyze	the given	Design.					
2	A15	B50	A40	B20				
3	B10	A25	B40	C30				
4	C40	C65	C35	A45				
5								
6								
7	Solution	:- Given,	design is	RBD wit	th 3 treat	ments an	d 4 repli	cations.
8	Blocks		Treatme	nts				
9	DIUCKS	A	В	C				
10	I	15	10	40				
11	II	25	50	65				
12	III	40	40	35				
13	IV	45	20	30				
14								
15	ANOVA							
16	e of Vari	SS	df	MS	\boldsymbol{F}	P-value	F crit	
17	Block	1006.3	3	335.42	1.5631	0.2931	4.7571	
18	Treatme	379.17	2	189.58	0.8835	0.461	5.1433	
19	Error	1287.5	6	214.58				
20								
21	Total	2672.9	11					
22								
23								
24				Name: P	ramoon (Shrestha		

	Α	В	С	D	E	F	G	Н
1	Analyze	the given	Design.					
2	A15	B50	A40	B20				
3	B10	A25	B40	C30				
4	C40	C65	C35	A45				
5								
6								
7	Solution	:- Given,	design is	RBD wit	th 3 treat	ments an	d 4 repli	cations.
8	Blocks		Treatme	nts				
9	DIUCKS	A	В	C				
10	I	15	10	40				
11	II	25	50	65				
12	III	40	40	35				
13	IV	45	20	30				
14								
15	ANOVA							
16	e of Vari	SS	df	MS	\boldsymbol{F}	P-value	F crit	
17	Block	1006.3	3	335.42	1.5631	0.2931	4.7571	
18	Treatme	379.17	2	189.58	0.8835	0.461	5.1433	
19	Error	1287.5	6	214.58				
20								
21	Total	2672.9	11					
22								
23								
24				Name: P	ramoon (Shrestha		

	А	В	С	D	Е	F	G
1	Analyze the given Design.						
2	A15	B50	C40	D20			
3	B20	A25	D40	C30			
4	A40	B25	C35	D45			
5	D25	A25	B30	C40			
6							
7	Solution:- Given, de	sign is R	BD with	4 treatme	ents and 4	4 replicat	ions.
8	Blocks		Treatme	ents			
9	DIUCKS	A	В	C	D		
10	Ι	15	50	40	20		
11	II	25	20	30	40		
12	III	40	25	35	45		
13	IV	25	30	40	25		
14							
15	ANOVA Table						
16	Source of Variation	SS	df	MS	F	P-value	F crit
17	Blocks	129.69	3	43.229	0.3238	0.8083	3.8625
18	Treatments	204.69	3	68.229	0.5111	0.6846	3.8625
19	Error	1201.6	9	133.51			
20	Total	1535.9	15				
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	Α	В	С	D	Е	F	G	Н
1	Analyze	the given Design.						
2	A25	B20	C40	A20				
3	B20	A25	C40	C30				
4	A40	B25	C35	B45				
5								
6	Solution	n:- Given, design is (CRD with	ı 3 treatı	nents an	d 4 repli	ications.	
7	Treatmo	ents						
8	A	25	40	25	20			
9	В	20	20	25	45			
10	C	40	40	35	30			
11								
12		ANOVA Table						
13								
14		Source of Variation	SS	df	MS	\boldsymbol{F}	P-value	F crit
15		Treatments	204.17	2	102.08	1.2783	0.3246	4.2565
16		Errors	718.75	9	79.861			
17								
18		Total	922.92	11				
19								
20	Name: Pramoon Shrestha							

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