KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag.Degree Programme 2013 Admission VIth Semester Final Examination- July-2016

a	vI th Semester Final Examination- July-2013	Marks: 50 Time: 2 hours	
i	tle: Design and Analysis of Experiments (1+1)	(6 x 1=6)	
_			
,	Fill in the blanks1. The appropriate design for pot culture experiment is2. When all the factors are to be compared with equal precision then	design cannot	
	2 Talbon all the factors are to be come	Jocks and with one	
	be used.The error degrees of freedom in RBD to compare 5 varieties with 4 b	NOCKS and with one	
	missing observation		
	State True or False	-cube factorial	
	State True or False 4. The number of main effects of a 3-square factorial experiment and 2-cube factorial		
 experiment are equal. An experiment was conducted on two varieties with 4 dates of sow An experiment was conducted experiment. 		ng and 4 different	
	5. An experiment was conducted on two varieties was 5.		
	5. An experiment was conducted on two variances. spacing. This is symmetric factorial experiment. spacing. This is symmetric factorial experiment.		
	spacing. This is symmetric recession. 6. Linear model for LSD (give the formula for)		
	A Match the following:	(4 0 E-7)	
	a) Binomiai percentages	(4 x 0.5=2)	
	b) Angular Transformation c) Yate's procedure	na '	
	c) F test d) Comparison of several mea d) ANCOVA	112	
	a) ANCO VII		
	Define the following: 8. Randomisation	(2 x 1=2)	
	9. Degrees of freedom	(5 x 2=10)	
	I Write short notes on any FIVE	(3 X Z-10)	
I	1. Compare the advantages and disadvantages of RBD and CRD		
	1. Compare the advantages and disadvantages of r and r . Compare the advantages and disadvantages of r and r are r . Compare the advantages and disadvantages of r and r are r . Compare the advantages and disadvantages of r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r and r are r and r are r are r and r are r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r and r are r are r are r and r are r and r are r and r are r are r and r are r and r are r are r and r are r are r and r are r and r are r are r are r are r and r are r and r are r are r are r are r and r are r are r are r		
	2. Give the method of analysis and		
	treatments. 3. Define simple, main and interaction effects.	•	
	Barlain border effect and experimental effect and experimental	ſ	
	Explain both What is testing of hypothesis? What is testing of hypothesis?	•	
	1'-ction Of T LESL		
6. Explain the application of the following7. What are the practical considerations in field experimentation?		,	
	7. What are the plactical of the following	(5 x 4=20)	
	7. What are the F		
	2 Explain and 1 amoriment? Explain the analysis of a 2 factorial	Explain the programment? Explain the diarysis of a 2 ractorial corp	
	3. What is the basic principles of experimentation.	designs Resed on the	
•	4. Explain the basic plant model used in one way, two way and three way	designs. Dased on the	
	 4. Explain the basic P 5. Describe the linear model used in one way, two way and three way model explain the analysis of the designs used by each model. 		

- 6. Suggest suitable design along with the treatment combinations and breakup of the degrees of freedom for sources of variations
 - i) to study the effects of two micro-nutrients Zn and Mg each at three levels on the yield of paddy crop.
 - ii) A laboratory experiment for comparing five seed treatments on two paddy varieties to study the germination percentages.
- 7. What is a uniformity trial? Mention its uses. How will you determine the optimum plot sizes for various crops.

IV Write essay on ANY ONE

(1 x 10=10)

- 1. Define Analysis of Variance. What are the assumptions on ANOVA.Discuss the transformations used when the assumptions are not met.
- 2. When will you recommend the strip plot design. Explain layout and analysis of this design. Make a comparison of this design with the split plot design.
