Eastern University, Sri Lanka

kond Semester Examination in Master of Science in Agriculture 2016/2017 Re Repeat (November 2018)

Index number:....

(25 Marks)

MAG 1207 Design and Analysis of Experiments

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all questic	ons				
atorial ex	periment was	conducted in a gr	reen house to s	study the effect of th	nree fertilizers (F ₁ , F ₂ and
and two v	arieties (V ₁ a	nd V ₂) on capsicu	m yield using	Completely Randon	nized Design (CRD). The
		is given below.			
SOV	Df.	SS	MS	F value	
Ŧ	2	174.26	87.13	288.50	
V	1	67.97	67.97	225.06	
H*V	2	20.66	10.33	34.20	
Error	18	5.45	0.302		
Total	23	268.34			
Sketch the layout of the experimental design.					(10 Marks)
h. Give the assumptions of ANOVA.					(10 Marks)
t. Write the statistical model for the ANOVA for the above design.					(10 Marks)
d Write the appropriate SAS codes to perform above ANOVA.					(10 Marks)
e. Interpret the above output.					(10 Marks)
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Write the short notes on principles of field design.					(25 Marks)
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b. Blocking techniques in agriculture