VF DAGRI Past Paper



Sir Arthur Lewis Community College End of Semester Examinations Division of Agriculture Certificate Programme In Agriculture Semester II



Course: Basic Farm Machinery and Buildings BFM 512

Date: Monday, May 13, 2002.

Time: 9:00 am

Duration: 2 1/2 hours

Instructions: Answer All questions

1. (a) Explain in detail why the orientation of farm buildings is important in St Lucia.

(5 marks)

- (b) Outline the benefits of a slatted floor system compared to solid floors for rearing sheep.

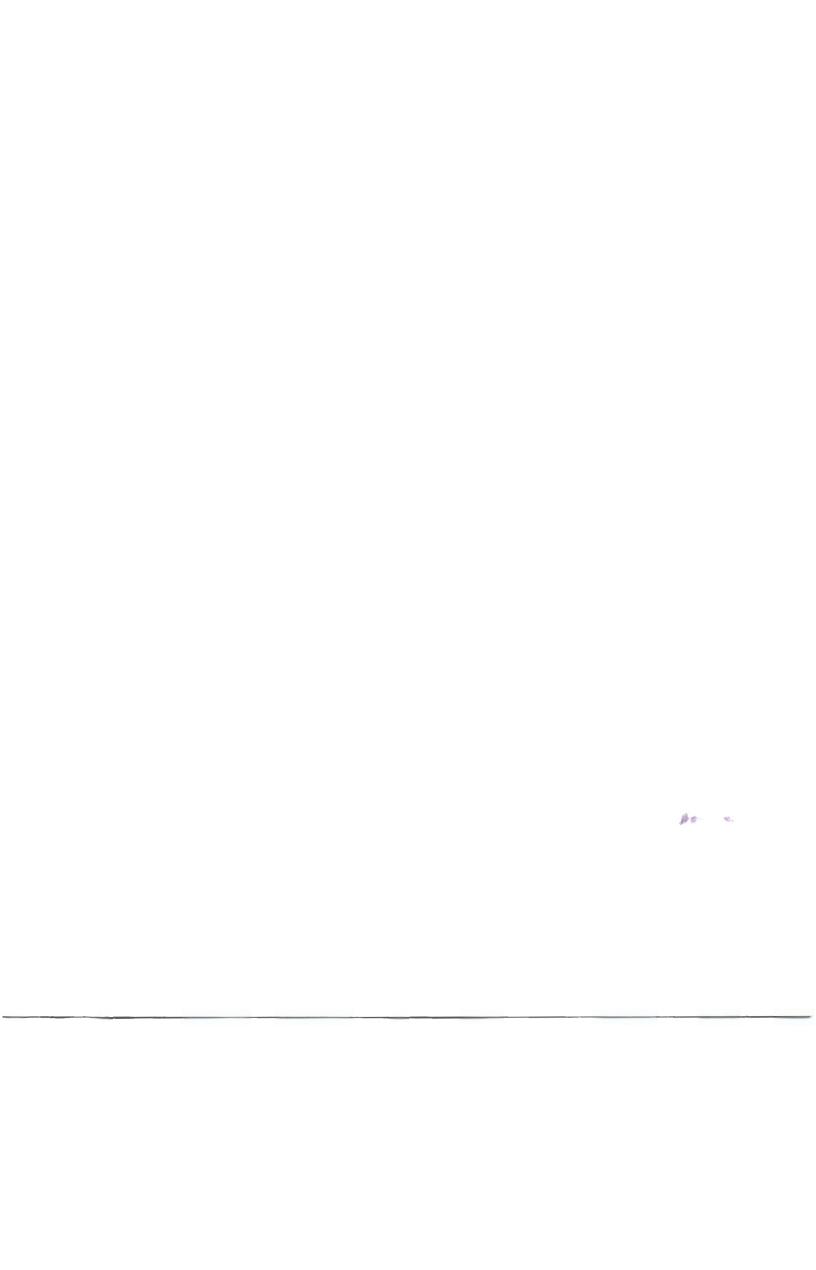
 (5marks)
- 2 (a) What are the main wooden members of a gable roof? (2 marks)
 - (b) What are the main wooden members of a slatted floor? (1 mark)
 - What are the uses of the following in farm building construction:
 - i. steel mesh (4 marks)
 - ii Concrete blocks (1 mark) ii. Grave! (1 mark)
 - (d) What are the advantages and disadvantages of the following materials in the uses mentioned below?
 - i. Polyethylene used as a covering material. (5 marks)
 - ii. Saran used as covering and cladding. (5 marks)
 - iii. Corrugated galvanized metal for covering. (2 marks)

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3	Wh	at precautions should one take in preparing the foundation of a small nursery buildin				
		i. a steel frame ii. a wooden frame.				
		(2 marks each)				
4	(a)	List the function of each of the following parts of the Lever- operated knapsack				
		sprayer. (4 marks)				
		i Lance ii. pressure chamber iii. nozzle iv. in line filter				
	(b)	What are the weaknesses of lever-operated knapsack sprayer? (3 marks)				
	0	What improvements can be made to this sprayer to improve on these short				
		comings. (2 marks)				
	(c) V	What are of the advantages of mist blower application of pesticide over the use of				
		ever operated knapsack sprayers. (3 marks)				
5	(a) Describe how one should go about setting up a pump for the abstraction of water					
		from a river. (4 marks)				
	(b) What are the principal needs for the engine of such a pump to start? (3 marks)					
	© A two stroke engine uses a fuel to lubricant ratio of 24:1. How much					
		mixed with 3 lite				
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		hat checks should one perform before ed in the last three days.	e setting out with a farm vehice (3 marks)	cle he has not	
6	(a)	Name two types of air cleaner found	on small farm engines.	(2 marks)	
	(b)	Outline how each type of cleaner is	maintained.	(4 marks)	
7	(a)	(a) What are the likely benefits of manual wheel roll seeder in local farming?			
			(2 marks)		
	(b) What are the primary requirements ifor this equipment to be effective?				
			(2 marks)		

