

Section A

#F12

(a) List as many separate applications of small engines as a power source on farms in Saint Lucia. (3 marks)

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- (b) What characteristics of these engines make them useful to local farmers? (4 marks)
- (c) What are some of the problems experienced by users of small engines in Saint Lucia? (4 marks)
- (d) What are the limitations of human labour as a power source for farmers? (4 marks)
- (e) What situations and conditions make human labour a good choice of power for farmers? (5 marks)
- 2. (a) List the components of a drip irrigation System and give the function or functions of each component. (5 marks)
 - (b) Give two advantages and two disadvantages of using this method of irrigation. (4 marks)
 - (c) Indicate clearly when one should use motorized knapsack mist blowers and also explain what aspects makes them so useful to crop producers generally. (7 marks)
 - (d) What are the possible disadvantages of motorized equipment for pesticide application on farms in St Lucia? (4 marks)

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Section 3

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(a) What is meant by the term **Capacity** with respect to farm tools and equipment. (Give examples with respect to two selected tools or equipment.) (4 marks)

- (b) Give three reasons why farmers would purchase machines for use on their farms. (5 marks)
- (c) What are the disadvantages of lever-operated knapsack sprayers for pesticide and herbicide application on farms in Saint Lucia. (5 marks)
- (d) Suggest plausible reasons why productivity is low for <u>weed control operations</u> in Crop Enterprises in Saint Lucia. Suggest specific measures that can be taken to increase productivity. (6 marks)

Section B

- 4. (a) Outline separately the benefits of good ventilation in (i) chicken and (ii) propagation shelters. (5 marks)
 - (b) Explain clearly the various methods by which ventilation is accomplished or promoted in these shelters. (5 marks)
 - (c) Explain five factors one should take into consideration in setting up a <u>raised</u> <u>floor sheep pen</u>. [Do not include ventilation]. (10 marks)
- 5. (a) What are the functions of the following in chicken shelters?

(i) anchor straps or bolts (ii) roof and eaves (4 marks)

- (b) Explain two precautions that must be taken to ensure that concrete used in pig shelters is strong enough. (4 marks)
- (c) What are the applications of plastics in farm shelters and what properties make plastic attractive for these uses? (8 marks)
- (d) What are some disadvantages of using plastics in the applications you have mentioned. (4 marks)

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(a) List three floor types utilized for production buildings in agriculture. (3 marks)

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- (b) Give instances or situations where Saint Lucian farmers utilize each floor type. (6 marks)
- (c) What are the advantages of <u>each</u> floor type in the applications you have mentioned? (5 marks)
- (d) What are the disadvantages of <u>each</u> floor type for the various each of the various uses they are put to locally? (5 marks)

