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Marks

SECTION B

Question	6	7	8	Total
Marks				

Grand Total

This paper consists of 16 printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

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SECTION A

Answer any THREE questions from this Section.

1.	(a)	Define the following:	
		(i) Physiological maturity;	
		(ii) Seed inoculation;	
		(iii) Seed dressing.	(3 marks)
	(b)	Describe maize streak disease under the following:	
		(i) Cause;	
		(ii) Symptoms;	
		(iii) Control.	(5 marks)
	(c)	Explain the constraints facing sisal industry.	(12 marks)
2.	(a)	Explain seed pretreatment practices for rice in the nursery.	(10 marks)
	(b)	Highlight cultural methods for controlling pests in beans.	(10 marks)
3.	(a)	Explain the factors affecting pyrethrin content in pyrethrum.	(10 marks)
	(b)	Describe multiple stem pruning in coffee under the following:	
		(i) Advantages;	
		(ii) Disadvantages.	(10 marks)
4.	(a)	Explain how the following factors determine sugar cane quality.	
		(i) Brix; (ii) POL; (iii) Purity; (iv) Fibre content.	
			(8 marks)
	(b)	Differentiate between tipping in and breaking back in tea product	tion. (9 marks)
	(c)	State the remedial measures for rectifying soil acidity for wheat,	(3 marks)

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- 5. (a) Describe afflatoxin mould in groundnuts under the following:
 - (i) Causal organism;
 - (ii) Symptoms;
 - (iii) Control measures.

(5 marks)

- (b) (i) Describe the coconut utilization;
 - (ii) Describe the harvesting and post harvesting handling of cashew nuts;
 - (iii) State two reasons why smooth-shell macadamia cultivars are preferred. (15 marks)

SECTION B

Answer any TWO questions from this Section.

- (a) Citing an example in each case differentiate between symbiotic and non-symbiotic nitrogen fixation.
 (5 marks)
 - (b) The figure 1, below shows activities that take place when fresh organic matter with high C:N ratio is added to soil.

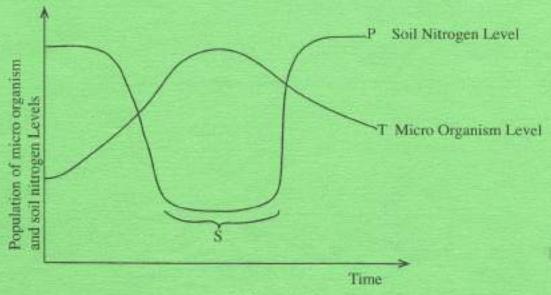


Figure I

- (i) With respect to C:N ratio, explain the phenomenon as illustrated by graphs P, T and region S. (12 marks)
- (ii) Suggest three ways a farmer can use to minimise effects illustrated in figure 1.(3 marks)

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oct /NOV 2012 Explain the factors that affect the quality of farm yard manure. A farmer wants to prepare 1000 Kg of fertilizers grade 15:10:0 using the following: Ammonium nitrate 34:0:0 Tripple super phosphate 0:45:0 Calculate the quantity of: Ammonium nitrate to be used; Tripple super phosphate to be used; (ii) Filler material to be added. (iii) (10 marks) Explain three factors that affect effectiveness of fertigation. (6 marks) (4 marks) Describe methods of placement of dry fertilizers. (10 marks) Describe five advantages of liming soils.

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(i)

8.

(a)

(b)

(c)