



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Technology (Agriculture)

First year 2nd Semester Examination – 2016

AG 1203: Vegetable Production

Instructions for Candidates:

One hour for part I & II, Two hours for part III

Answer Part I & II on the paper itself & will be collected after one hour

Answer All Questions

Index Number.....

No. of questions: 07

No. of pages : 06

Time: Three (03) hours

Part I

Q1) Select the correct answer and circle it on this paper.

(i) Select the cucumber variety from the following.

- a) LY-50
- b) C-56
- c) SLS-40
- d) MC-40

(ii) Select the correct statement from the following.

- a) Indigenous types of vegetables are commonly cultivated in all elevations of the country.
- b) Vegetable production programme has less flexibility
- c) Vegetables give higher total yield per unit area per unit time than most of the cereals and other field crops.
- d) Cabbage, leeks, beet and cauliflower are classified as underutilized vegetables.

(iii) Select the correct statement regarding the pods of snake gourd variety-TA2

- a) Very long, cylindrical, ashy white mottles with discontinuous green streaks
- b) Short, cylindrical and very light green with ashy white mottles.
- c) Very short, cylindrical and ashy white mottles with continuous green streaks.
- d) Long, cylindrical and very light green with continuous white streaks.

- iv) Select the bitter gourd variety from the following;
- a) MI short
 - b) Asiri
 - c) MC 43
 - d) LA33
- v) Which of the following crop has 75kg/ha as the seed rate and 50×10 cm as the planting spacing?
- a) Pole bean
 - b) Bush bean
 - c) Winged bean
 - d) Okra
- vi) Select the crop from the following, which matures in 40-60 days and the seed rate is 5 kg/ha.
- a) Radish
 - b) Cabbage
 - c) Cauliflower
 - d) Pole bean
- vii) What is the recommended spacing for the field planting of cauliflower?
- a) 60×60 cm
 - b) 60×30 cm
 - c) 50×40 cm
 - d) 80× 50 cm
- viii) Select the correct statement about capsicum from the following.
- a) It is very sensitive crop for drought.
 - b) Loamy well drained soils with a pH range from 5.5 to 6.8 are best suitable for planting
 - c) Nursery is to be laid two weeks before planting.
 - d) Forty nursery beds are required to raise seedlings for cultivation of one (01) ha.

- ix) Which of the following crop produce 15 t /ha as a yield and harvesting commence in 50-55 days of planting?
- a) Okra
 - b) Tomato
 - c) Brinjal
 - d) Capsicum
- x) Select the correct statement regarding Carrot.
- a) Botanical name is *Abelmoshus carota*
 - b) Carrot can't be grown in the low country area
 - c) Well-drained soils with a pH of 4.6 to 5.8 is ideal for cultivation.
 - d) It takes about 75-90 days for maturation.
- xi) Select the correct statement from the following regarding mosaic virus disease in vegetables.

Statements;

- x) Sunken brown spots can be seen on leaves and fruits.
- y) Green and yellow colour spots can be seen on leaves
- z) Leaves become curly and wrinkled.

- a) x, y b) y, z c) x, z d) x, y, z

- (xii) Select the correct statement about beet.

- a) Beet can be grown in all agro-ecological regions in the country.
- b) Badulla district has the largest extent of cultivation.
- c) Beet has high nutritive value.
- d) Beet couldn't be cultivated in dry areas even under irrigated condition.

- (xiii) Which of the following vegetable belongs to Family-Leguminaceae?

- a) Leeks
- b) Okra
- c) Green peas
- d) Brussles sprout

(xiv) Select the correct maturation time period and seed rate of radish from the following.

- a) 45-60 days and 5 kg/ha
- b) 45-60 days and 1 kg/ha
- c) 65-80 days and 5 kg/ha
- d) 65-80 days and 1 kg/ha

(xv) Which of the following is not a cabbage variety?

- a) Lanka Nill.
- b) K-Y cross
- c) Lanka Gova
- d) Exotic F1

(xvi) Select the correct statements about Minor Exotic Vegetables from the following.

Statements;

- x) Most of the minor exotic vegetables belong to the Family Cruciferaeae.
- y) Most of the minor exotic vegetables can be grown in up country wet zone
- z) Green peas cannot be categorized under minor exotic vegetables

- a) x, y
- b) x, z
- c) y, z
- d) x, y, z

(Total 16 marks)

Part- II

Structured Questions

Q2). (i) Name three (03) vegetables required nurseries before field planting? (03 marks)

.....
.....
.....

(ii) Write three (03) techniques used to produce “clean vegetables” to the super markets? (03 marks)

.....
.....
.....

(iii) List three (03) the advantages of mulching in pumpkin cultivation? (06 marks)

.....
.....
.....

Q3 (i) Name two (02) vegetable categorized under Family-Solanaceae? (02 marks)

.....
.....

(ii) List the soil and climatic requirements for okra cultivation? (04 marks)

.....
.....
.....

(ii) What are the factors to be considered in land preparation for cultivation of root vegetables? (06 marks)

.....
.....
.....

Part III

Essay Questions

- Q4) (i) Briefly explain the term “Underutilized vegetables” with examples? (04 marks)
(ii) What are the suitable climatic conditions for cultivation of snake gourd? (04 marks)
(iii) Explain the important management practices of snake gourd? (07 marks)
- Q5) (i) What are the important soil requirements for cultivation of capsicum? (04 marks)
(ii) Describe the nursery preparation steps for capsicum? (06 marks)
(iii) Briefly describe the harvesting practices of okra? (05 marks)
- Q6) Write short notes on following.
(i) Common concepts used in planning of a home garden. (05 marks)
(ii) Cultural management practices used in Carrot cultivation. (05 marks)
(iii) Uses of leafy vegetables. (05 marks)
- Q7) (i) What are the important climatic and soil requirements for cultivation of radish? (05 marks)
(ii) Briefly explain the problems and constraints of vegetable production in Sri Lanka and suggest how they can be overcome? (10 marks)