



# SLIATE

**SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION**

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

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**Higher National Diploma in Technology (Agriculture)**  
**First Year, Second Semester Examination – 2015**  
**AG1202- Crop Production Technologies –Other Field Crops**

Instructions for Candidates:

Answer all questions

All questions do not carry equal marks

Answer part I & part II on the paper itself (01 hour)

No. of questions : 07

No. of pages : 05

Time : 3 hrs

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**PART I**

**Q.1. (Total Marks 16)**

**Underline the correct answer**

01. Select the scientific name of red onion

- i. *Allium esculanta*
- ii. *Allium cepa*
- iii. *Alliumascalonium*
- iv. Non of above

02. What is the ploughing depth of big onion?

- i. 20-25 cm
- ii. 25- 30 cm
- iii. 15- 20 cm
- iv. 30- 35 cm

03. Select the varieties belong to chilli cultivation.

- i. MI 1, MI 2, pb1
- ii. Rampur red, pusa red, nasic red
- iii. MI 1, MI 3, MI hot
- iv. MI 1, MI 2, KA 2

04. What is the correct moisture level of sun flower seeds for storage?

- i. >10%
- ii. <10%
- iii. <13%
- iv. >13%

05. Select the correct statement on ground nut

- i. It contains high amount of protein than carbohydrates
- ii. It contains high amount of protein than fat
- iii. It contains high amount of calcium than fat
- iv. All are incorrect

06. What is the correct statement on planting material of ginger?

- i. 9-10 months old rhizomes are suitable for planting
- ii. Weight of local ginger variety should be more than 50 g
- iii. Rhizome section should have 2-3 sprouts
- iv. Planting material requirement is 1000kg/ha

07. What is the correct climatic requirement for cultivation of turmeric?

- i. Elevation – upto 1000m amsl
- ii. Rain fall – 1000mm/year
- iii. Temperature 20-35<sup>0</sup>c
- iv. RH – 95%

08. Select the correct statement on ginger & turmeric

- i. They require clay soil
- ii. They belong to family Zingiberaceae
- iii. Commercially cultivate using suckers
- iv. They should plant 12cm depth in soil

09. What is the recommended variety of innala?

- i. Mahesha
- ii. Arunalu
- iii. Binari
- iv. Bombay

10. What is the seed rate to cultivate PM 25 variety?

- i. 55kg/ha
- ii. 60kg/ha
- iii. 45kg/ha
- iv. 50kg/ha

11. Select the common disease which spreads due to late planting of black gram

- i. Yellow mosaic virus
- ii. Bud blight
- iii. Bacterial pustule
- iv. Charcoal rot

12. What is the temperature requirement to cultivate cowpea ( $^{\circ}\text{C}$ )

- i. 25-30
- ii. 30-35
- iii. 20-30
- iv. 20-25

13. Select the crop that can be used in ratoon cropping

- i. Mung bean
- ii. Pigeon pea
- iii. Soy bean
- iv. Chilli

14. What is the scientific name of sweet potato?

- i. *Solanum tuberosum*
- ii. *Manioc esculenta*
- iii. *Ipomea batatas*
- iv. *Coleus rotundifolius*

15. What is the correct spacing for sunflower?

- i. 60 x 25 cm
- ii. 60 x 30 cm
- iii. 60 x 15 cm
- iv. 60 x 35 cm

16. Select the crop that is not required nursery management

- i. Chilli
- ii. Big onion
- iii. Red onion
- iv. Manioc

**PART II**

**Q2. (Total Marks 12)**

(i) Name three varieties of cowpea (3 marks)

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(ii) Give three major growing areas of Black gram (3 marks)

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(iii) Name different growth habits of pigeon pea plant (3 marks)

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(iv) List three types of underutilized tuber crops in Sri Lanka (3 marks)

- a).....
- b).....
- c).....

**Q 3. (Total Marks 12)**

(i) Give three (03) economical importance of Gingerly (3 marks)

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(ii) Name three oil crops (annuals) cultivate in Sri Lanka (3 marks)

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(iii) Write two (02) propagation methods of innala? (3 marks)

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(iv) Name different planting methods of cassava (3 marks)

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### PART III

Q .4. (Total Marks 15)

- i) Briefly explain the method of applying seedling treatment for big onion (5 marks)
- ii) Explain the field establishment of red onion by using seed bulbs (10 marks)

Q.5. (Total Marks 15)

- i) Describe the land preparation for field planting of chilli (7 marks)
- ii) Give your suggestions to improve the Turmeric production in Sri Lanka (8 marks)

Q.6 (Total Marks 15)

- i) "Potato cannot be cultivated in all climatic regions of Sri Lanka". Give your comments on above statement (5 marks)
- ii) Explain the field establishment and management practices of Ground nut in Dry zone (10 marks)

Q.7. (Total Marks 15)

Write short notes on

- i) Harvesting and processing of soy bean (5 marks)
- ii) Economical importance of Ginger (5 marks)
- iii) Nutritive value of Sun flower oil (5 marks)