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## HLOR/2021

| Register |  |  | + 1 |  | N. I |
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| Number   |  |  |     |  |      |

# 2021 HORTICULTURE (Degree Standard)

**Duration: Three Hours** 

[Total Marks: 300

Read the following instructions carefully before you begin to answer the questions.

#### IMPORTANT INSTRUCTIONS

- 1. You will be supplied with this question booklet 15 minutes prior to the commencement of the examination.
- 2. This question booklet contains 200 questions. Before answering the questions, you are requested to check whether all the questions are printed serially and ensure that there are no blank pages in the question booklet. If any defect is noticed in the question booklet, it shall be reported to the invigilator within the first 10 minutes and get it replaced with a complete question booklet. If the defect is reported after the commencement of the examination, it will not be replaced.
- 3. Answer all the questions. All the questions carry equal marks.
- 4. You must write your register number in the space provided on the top right side of this page. Do not write anything else on the question booklet.
- 5. An answer sheet will be supplied to you separately by the room invigilator to shade the answers.

  Instructions regarding filling of answers etc., which are to be followed mandatorily, are provided in the answer sheet and in the memorandum of admission (Hall Ticket).
- 6. You shall write and shade your question booklet number in the space provided on page one of the answer sheet with BLACK INK BALL POINT PEN. If you do not shade correctly or fail to shade the question booklet number, your answer sheet will be invalidated.
- 7. Each question comprises of five responses (answers): i.e. (A), (B), (C), (D) and (E). You have to select ONLY ONE correct answer from (A) or (B) or (C) or (D) and shade the same in your answer sheet. If you feel that there are more than one correct answer, shade the one which you consider the best. If you do not know the answer, you have to mandatorily shade (E). In any case, choose ONLY ONE answer for each question. If you shade more than one answer for a question, it will be treated as a wrong answer even if one of the given answers happens to be correct.
- 8. You should not remove or tear off any sheet from this question booklet. You are not allowed to take this question booklet and the answer sheet out of the examination room during the time of the examination. After the examination, you must hand over your answer sheet to the invigilator. You are allowed to take the question booklet with you only after the examination is over.
- 9. You should not make any marking in the question booklet except in the sheets before the last page of the question booklet, which can be used for rough work. This should be strictly adhered to.
- Failure to comply with any of the above instructions will render you liable for such action as the Commission may decide at their discretion.

### SPACE FOR ROUGH WORK

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| 1. | Styl | ar extension in tomato is due to  |              |                                    |
|----|------|-----------------------------------|--------------|------------------------------------|
|    | 43)  | High temperature                  | (B)          | Low temperature                    |
|    | (C)  | High wind velocity                | (D)          | Low wind velocity                  |
|    | (E)  | Answer not known                  |              |                                    |
| 2. | The  | pea variety introduced from US    | SA and belo  | ongs to mid season & late group is |
|    | 4    | Bonneville                        | (B)          |                                    |
|    | (C)  | Arkel                             | (D)          | Ageta – 6                          |
|    | (E)  | Answer not known                  |              |                                    |
| 3. | The  | following are the perennial vege  | etables      |                                    |
|    | 1.   | Chow-chow                         |              |                                    |
|    | 2.   | Coccinea                          |              |                                    |
|    | 3.   | Drumstick                         |              |                                    |
|    | 4.   | Spinach                           |              |                                    |
|    | (A)  | 2, 4, 1                           |              |                                    |
|    | (B)  | 3, 2, 4                           |              |                                    |
|    | (C)  | 4, 3, 2                           |              |                                    |
|    | 0    | 1, 2, 3                           |              |                                    |
|    | (E)  | Answer not known                  |              |                                    |
| l. | Saue | er kraut is a fermented pickle pr | epared from  | ${f n}$                            |
|    |      | Cauliflower                       |              | Cabbage                            |
|    | (C)  | Sprouting broccoli                |              | Brussels sprout                    |
|    | (E)  | Answer not known                  |              |                                    |
| ·. |      | coloured brinjal is usef          | ul for diabe | etic patients.                     |
|    | (A)  | Green                             |              |                                    |
|    | P    | White                             |              |                                    |
|    | (C)  | Purple                            | ,            |                                    |
|    | (D)  | Purple with stripes               |              |                                    |
|    | (E)  | Answer not known                  |              |                                    |

| 6.  | Roses    | s are commercially propagated by     |         |                 | 2 12 Co.  |         |
|-----|----------|--------------------------------------|---------|-----------------|-----------|---------|
|     | 4        | "T"-budding                          | (B)     | Cutting         |           |         |
|     | (C)      | Layering                             | (D)     | Seed            | ugannut   | 4       |
|     | (E)      | Answer not known                     |         |                 |           |         |
|     |          |                                      |         |                 |           |         |
| 7.  | Ther     | percentage of concrete recovery is h | igh in  | which of the fo | llowing s | pecies? |
|     | 1        | Jasminum auriculatum                 |         |                 |           |         |
|     | (B)      | Jasminum grandiflorum                |         |                 |           |         |
|     | (C)      | Jasminum sambac                      |         |                 | A.        |         |
|     | (D)      | Jasminum multiflorum                 |         |                 |           |         |
|     | (E)      | Answer not known                     |         |                 |           |         |
|     | (2)      |                                      |         |                 |           |         |
|     | <b>.</b> | the fellowing is amine energies on   | oduace  | nink flower?    |           |         |
| 8.  | Amo      | ng the following jasmine species pr  | ouuces  | pilik Hower:    |           |         |
|     | (D)      | Jasminum polyanthum                  |         |                 |           |         |
|     | (B)      | Jasminum humile                      |         |                 |           |         |
|     | (C)      | Jasminum mudiflorum                  |         |                 |           |         |
|     | (D)      | Jasminum multiflorum                 |         |                 |           |         |
|     | (E)      | Answer not known                     |         |                 |           |         |
|     |          |                                      |         | *               |           |         |
| 9.  | Natio    | onal Botanical Research Institute i  | s locat | ed at           |           |         |
|     | 4        | Lucknow, U.P.                        |         |                 |           |         |
|     | (B)      | Bangalore, Karnataka                 |         |                 |           |         |
|     | (C)      | Thrissur, Kerala                     |         |                 |           |         |
|     | (D)      | Kolkatta, West Bengal                |         |                 |           |         |
|     | (E)      | Answer not known                     |         |                 |           |         |
|     |          |                                      |         |                 |           |         |
| 10. | Chry     | santhemums are classified as         |         |                 |           |         |
|     | W        | Short day                            |         |                 |           |         |
|     | (B)      | Long day                             |         |                 |           |         |
| * * | (C)      | Day neutral                          |         |                 |           |         |
|     | (D)      | None of the above                    |         |                 |           |         |
|     | (E)      | Answer not known                     |         |                 |           |         |

| 11. | In square system | of arecanut | planting | the | north | south | line | should | be | deflected | at an |
|-----|------------------|-------------|----------|-----|-------|-------|------|--------|----|-----------|-------|
|     | angle            |             |          |     |       |       |      |        |    |           |       |

- (A) 10° degree towards west
- (B) 20° degree towards west
- 35° towards west
- (D) 50° degree towards west
- (E) Answer not known

## 12. The ideal month and spacing for rubber planting in hilly areas are

June – July 6.7 m  $\times$  3.4 m

- (B) April May  $4.9 \text{ m} \times 4.9 \text{ m}$
- (C) December January 6.7 m × 3.4 m
- (D) June July  $4.9 \text{ m} \times 3.4 \text{ m}$
- (E) Answer not known

#### 13. Young fruits of cocoa are called as

(A) Jorquetee

(B) Choupon

(Cherelle

(D) Drupe

(E) Answer not known

#### 14. Central Coffee Research Institute is located at

- (A) Ajmer, Rajasthan
- (B) Myladumpara, Kerala
- (C) Calicut, Kerala
- Chikmagaluru, Karnataka
- (E) Answer not known

#### 15. What is the chromosome number of coffee?



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$$2n = 22$$

(B) 
$$2n = 30$$

(C) 
$$2n = 32$$

(D) 
$$2n = 40$$

(E) Answer not known

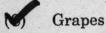
| 16. | The  | vetiver grass is native to      |     |                       |
|-----|------|---------------------------------|-----|-----------------------|
|     | V.1) | India                           |     |                       |
|     | (B)  | Burma                           |     |                       |
|     | (C)  | Srilanka                        |     |                       |
|     | (D)  | Afganisthan                     |     |                       |
|     | (E)  | Answer not known                |     |                       |
|     |      |                                 |     |                       |
| 17. | The  | origin of Isabgol               |     |                       |
|     | (A)  | Mexico                          | (B) | Costa Rica            |
|     | N    | Persia                          | (D) | Sudan                 |
|     | (E)  | Answer not known                |     |                       |
|     |      |                                 |     |                       |
| 18. | The  | lemon grass comes to harvest —— |     | - days after planting |
|     | (A)  | 60 days                         |     |                       |
|     | (B)  | 70 days                         |     |                       |
|     | (C)  | 80 days                         |     |                       |
|     | T)   | 90 days                         |     |                       |
|     | (E)  | Answer not known                |     |                       |
|     |      |                                 |     |                       |
| 19. | The  | Japanese mint varieties         |     |                       |
|     | 4    | Gomti, Kalka                    |     |                       |
|     | (B)  | Kukrail, CIMAP, Madhuras        |     |                       |
|     | (C)  | Ganga, Supriya                  |     |                       |
|     | (D)  | Kiran                           |     |                       |
|     | (E)  | Answer not known                |     |                       |
|     |      |                                 |     |                       |
| 20. | Berg | amot mint botanically known as  |     |                       |
|     | (A)  | Mentha piperita                 |     |                       |
|     | (B)  | Mentha Spicata                  |     |                       |
|     | 10   | Mentha Citrata                  |     |                       |
|     | (D)  | Mentha arvensis                 |     |                       |
|     | (E)  | Answer not known                |     |                       |

| 21. | Osr  | notic membrane coating                            | gs are | practiced | l in  |   |
|-----|------|---|--------|-----------|-------|---|
|     | W    | Cut pieces of fruit                               |        |           | (B)   | Whole fruit                             |
|     | (C)  | Whole vegetable                                   |        |           | (D)   | Cut vegetable                           |
|     | (E)  | Answer not known                                  |        | 4         |       |   |
|     |      |   |        |           |       |   |
| 22. | The  | e term 'nib' is related to                        |        |           |       |   |
|     | (A)  | Coffee  |        |           | (3)   | Cocoa                                   |
|     | (C)  | Chincona  |        |           | (D)   | Cinnamon                                |
|     | (E)  | Answer not known                                  |        |           |       |   |
|     |      |   |        |           |       |   |
| 23. | Mat  | tch the following                                 |        |           |       |   |
|     | (a)  | Ginger  | 1.     | ETEZ      |       |   |
|     | (b)  | Turmeric  | 2.     | CGEB      |       |   |
|     | (c)  | Cardamom  | 3.     | NUGK      |       |   |
|     | (d)  | Nutmeg  | 4.     | Rajapor   | e fin | ger                                     |
|     |      | (a) (b) (c)                                       | (d)    |           |       |   |
|     | (A)  | 3 2 4   | 1      | <u></u>   |       |   |
|     | 45   | 3 4 2   | 1      |           |       |   |
|     | (C)  | 3 1 2   | 4      |           |       |   |
|     | (D)  | 3 1 4   | 2      |           |       |   |
|     | (E)  | Answer not known                                  |        |           |       |   |
|     |      |   |        |           |       |   |
| 24. |      | t harvest disorder of ap<br>vest dip in fungicide | ople k | nown as   | supe  | erficial scald can be controlled by pos |
|     | 4    | Diphenylamine                                     |        |           | (B)   | Mancozeb                                |
|     | (C)  | Copper oxy chloride                               |        |           | (D)   | Wettable sulphur                        |
|     | (E)  | Answer not known                                  |        |           |       |   |
|     |      |   |        |           |       |   |
| 25. | Firn | nness of fruits can be te                         | sted b | y using - |       | tester                                  |
|     | (A)  | Hand Refractometer                                |        |           | V     | Penetrometer                            |
|     | (C)  | Moisture meter                                    |        |           | (D)   | Thermometer                             |
|     | (E)  | Answer not known                                  |        | A         |       |   |
|     |      |   |        |           |       |   |

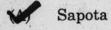
| 26. | This       | s is not | a meth   | od of soi | l less   | culture                  |                          |
|-----|------------|----------|----------|-----------|----------|--------------------------|--------------------------|
|     | (A)        | Wate     | er cultu | re        |          |                          |                          |
|     | (B)        | Grav     | el cultu | ıre       |          |                          |                          |
|     | (C)        | Drip     | culture  | •         |          |                          |                          |
|     | of         | Tiss     | ue cultu | ıre       |          |                          |                          |
|     | (E)        | Ansv     | ver not  | known     |          |                          |                          |
|     |            |          |          |           |          |                          |                          |
| 27. | Oxis       | sols are | highly   | weathe    | red n    | nineral soils rich in —— | ——— well suited for frui |
|     |            |          |          | Tamil I   |          |                          |                          |
|     | M          | Sesq     | uioxide  | s         |          |                          |                          |
|     | (B)        | Nitro    | ogen pe  | roxides   |          |                          |                          |
|     | (C)        | Hydi     | rogen pe | eroxide   |          |                          |                          |
|     | (D)        | Orga     | nic mat  | tter      |          |                          |                          |
| 1   | (E)        |          | ver not  |           |          |                          |                          |
|     |            |          |          | t.        |          |                          |                          |
| 28. | Mat        | ah Liat  | I with 1 | int II .  |          |                          | 194                      |
| 20. | Mau        | List I   | 1 WITH   | List II:  | 1.05     | List II                  |                          |
|     | (a)        |          | aamia    |           | •        |                          |                          |
|     | (a)<br>(b) | Schizo   |          |           | 1.<br>2. | Pomegranate Coriander    |                          |
|     | (c)        | Sorosi   |          |           | 3.       | Fig                      |                          |
|     | (d)        | Sycon    |          |           | 4.       | Pineapple                |                          |
|     | (-)        | 2,002    |          |           |          | 1 meappie                |                          |
|     | 1          | (a)      | (b)      | (c)       | (d)      |                          |                          |
|     | <b>(A)</b> | 2        | 1        | 4         | 3        |                          |                          |
|     | (B)        | 2        | 4        | 3         | 1        |                          |                          |
|     | (C)        | 4        | 2        | 3,        | 1        |                          |                          |
|     | (D)        | 1        | 2        | 3         | 4        |                          | •                        |
|     | (E)        | Answ     | er not l | known     |          |                          |                          |

29. The sprouting of potato during storage can be reduced by
Pre harvest spraying of Mallic hydrazide 2000 ppm
(B) Pre harvest dipping of Mallic hydrazide 1000 ppm
(C) Pre harvest spraying of 2,4-D-100 ppm
(D) Post harvest dipping in 2,4-D-50 ppm
(E) Answer not known

- 30. Stenospermocarpy is the biological mechanism that produces parthenocarpy (Seedlessness) in some fruits especially
  - (A) Orange
  - (B) Dates



- (D) Jack
- (E) Answer not known
- 31. Plant growth regulators are produced with in the plant is through
  - (A) Glands
  - (B) Receptors
  - (C) Effectors
  - Phytohormones
  - (E) Answer not known
- 32. The pistal ripens before the stamen in which crop



- (B) Amla
- (C) Ber
- (D) Phalsa
- (E) Answer not known

| 33. | Whi   | ch of the following is not the root | stock of Mango?                 |
|-----|-------|-------------------------------------|---------------------------------|
|     | (A)   | Kurukkan                            | attended to the second          |
|     | (B)   | Olour                               | eles estilla                    |
|     | (0)   | St. George                          |                                 |
|     | (D)   | Vellai Kollumban                    |                                 |
|     | (E)   | Answer not known                    |                                 |
|     |       |                                     |                                 |
| 34. | A pl  | ant is composed of a mixture of tis | ssues with different geno types |
|     | (A)   | Clone                               | (B) Monoclone                   |
|     | 19    | Chimera                             | (D) Polyclone                   |
|     | (E)   | Answer not known                    |                                 |
|     |       |                                     | A SAME SEED AND THE RES         |
| 35. | Mall  | et is a type of ———— cuttin         | g.                              |
|     | W.    | Hardwood cutting                    |                                 |
|     | (B)   | Semi hardwood cutting               |                                 |
|     | (C)   | Herbaceous cutting                  |                                 |
|     | (D)   | Root cutting                        | ar mana alka menggan sela       |
|     | (E)   | Answer not known                    | The second of the second        |
|     |       |                                     |                                 |
| 86. | Date  | palm is commercially propagated     | by                              |
|     | 1     | Offshoot                            | (B) Sucker                      |
|     | (C)   | Runner                              | (D) Crown                       |
|     | (E)   | Answer not known                    |                                 |
|     |       |                                     |                                 |
| 7.  | Inter | generic grafting is practiced in —  | crop.                           |
|     | (A)   | Mango                               |                                 |
|     | (B)   | Cashew                              |                                 |
|     | 40    | Sapota                              |                                 |
|     | (D)   | Avocado                             |                                 |

(E)

| 38. |       | em of training the plants in grape<br>orted by vertical posts is referred as | es in | which two trellis of wire are string   |
|-----|-------|--|-------|--|
|     | 40    | Kniffin system   | (B)   | Telephone system   |
|     | (C)   | Takura Trellis system  | (D)   | Espalier system  |
|     | (E)   | Answer not known   |       |  |
| ,,  |       |  |       |  |
| 39. | The   | critical period for irrigating citrus cro                                    | ops a | re .   |
|     | (A)   | Flowering  | (B)   | Fruit setting  |
|     | 405   | Flowering and fruit setting  | (D)   | None of these  |
|     | (E)   | Answer not known   |       |  |
| 40  |       |  |       | · · · · · · · · · · · · · · · · · · ·  |
| 40. |       | e the metabolic inhibitor used as a ing and increase the leaf resistance t   |       | ntitranspirant to reduce the stomatal ter vapour diffusion.  |
|     | W     | ABA  | (B)   | Waxol  |
|     | (C)   | Kaolin   | (D)   | Vermiculite  |
|     | (E)   | Answer not known   |       |  |
|     |       |  |       |  |
| 41. | Ident | tity the correct statement   |       |  |
|     | (A)   | At stick point, soil sticks to an obje                                       | ct    |  |
|     | (B)   | Capillary water is held between 31   | to 10 | 0000 atm   |
|     | 405   | At field capacity water is held at a   |       | (100m) : 100m(100m) |
|     | (D)   | Available water lies between wiltin  | ng an | d hygroscopic coefficients   |
|     | (E)   | Answer not known   |       |  |
| 42. | Read  | the following statements and answe   | r     |  |
|     | I.    |  |       | highly mobile in soil and not absorbed   |
|     | II.   | Ammonia, potassium, calcium, o absorbed on clay complex                      | coppe | er, magnesium are soluble, but are   |
|     | III.  | Phosphorus and zinc are immobile   | in so | il   |
|     | (A)   | I and II are correct   |       |  |
|     | 0     | I, II and III are correct  |       |  |
|     | (C)   | II and III are correct   |       |  |
|     | (D)   | I and III are correct  |       |  |
|     | (E)   | Answer not known   |       |  |
|     |       |  |       |  |

| 43. | Bitte | er pit is a physiological disord                                     | er noticed in     | apple due to deficiency of              |  |  |  |  |  |  |
|-----|-------|--|-------------------|---|--|--|--|--|--|--|
|     | (A)   | Potassium  |                   | Calcium                                 |  |  |  |  |  |  |
|     | (C)   | Boron  | (D)               | Zinc                                    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |
| 44. |       | much quantity of NPK (Kg/laing from 1 to 40 days                     | Na/day) sho       | ould be applied to grapes after forward |  |  |  |  |  |  |
|     | (A)   | 12:8:8   | (B)               | 12:6:6                                  |  |  |  |  |  |  |
|     | (C)   | 12:8:6   |                   | 16:8:8                                  |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |
| 45. | How   | much spacing is recommende   | d for one Ma      | andlin orange plant in Tamil Nadu       |  |  |  |  |  |  |
|     | (A)   | 16 sqmt  | · · · · · · · · · | 36 sqmt                                 |  |  |  |  |  |  |
|     | (C)   | 25 sqmt  | (D)               | 30 sqmt                                 |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |
| 46. | Cypl  | nomandra betacea belongs to  |                   |   |  |  |  |  |  |  |
|     | (A)   | Moraceae   | 08                | Solanaceae                              |  |  |  |  |  |  |
|     | (C)   | Malvaceae  | (D)               | Lauraceae                               |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |
| 47. | Whic  | Which of the following grapes variety is suitable for raisin making? |                   |   |  |  |  |  |  |  |
|     | (A)   | Bangalore Blue   | (B)               | Arab-e-Shahi                            |  |  |  |  |  |  |
|     | (0)   | Thompson Seedless  | (D)               | Muscat                                  |  |  |  |  |  |  |
|     | (E)   | Answer not known   | i i               |   |  |  |  |  |  |  |
| 48. | The   | optimal climatic condition for                                       | Litchi is         |   |  |  |  |  |  |  |
|     | (4)   | Warm subtropical   | (B)               | Warm and humid tropical                 |  |  |  |  |  |  |
|     | (C)   | Cool temperate   | (D)               | Arid and semi arid                      |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |
| 49. | The e | edible portion of jack fruit   |                   |   |  |  |  |  |  |  |
|     | (A)   | Pericarp   | (6)               | Perianth                                |  |  |  |  |  |  |
|     | (C)   | Endocarp   | (D)               | Fleshy style                            |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                   |   |  |  |  |  |  |  |

| 50. | Mate   | urity indices for marketable green p  | ea poo   | ds is  |  |    |
|-----|--------|---------------------------------------|----------|--|--|----|
|     | (A)    | Drying of pods                        |          |  | A STATE OF THE STA |    |
|     | d      | Change of pod colour from dark g      | reen to  | o light green  | Salves - 18  |    |
|     | (C)    | Shrivelling of pods                   |          | and the second   | den Kush   |    |
|     | (D)    | Cracking of pods                      |          | e e la la companya de la companya d |  |    |
|     | (E)    | Answer not known                      |          |  |  |    |
|     |        |                                       |          |  |  |    |
| 51. | Chov   | w Chow is requires ————— clir         | natic    | condition for better   | growth.  |    |
| •   | (A)    | Tropical                              | 05       | Subtropical  |  |    |
|     | (C)    | Temperate                             | (D)      | Arid zone  |  |    |
|     | (E)    | Answer not known                      |          |  |  |    |
|     |        |                                       |          |  |  |    |
| 52. | The    | production of vegetables in off seaso | n und    | ler protected conditi  | on is called   | as |
|     | (A)    | Market Garden                         |          |  |  |    |
|     | (B)    | Truck Garden                          |          |  |  |    |
|     | 6      | Vegetable forcing                     |          |  |  |    |
|     | (D)    | Growing for vegetable processing      |          |  |  |    |
|     | (E)    | Answer not known                      | 1        |  |  |    |
|     |        |                                       |          |  |  |    |
| 53. | Brow   | vning disorder in Cauliflower is due  | to       |  |  |    |
|     |        | Iron                                  | (B)      | Calcium  |  |    |
|     | (0)    | Boron                                 | (D)      | Magnesium  |  |    |
|     | (E)    | Answer not known                      |          |  |  |    |
|     | (-,    |                                       |          |  | · / / / /  |    |
| E 4 | Tho    | important disease that occurs in bri  | nial n   | urgery is  |  |    |
| 54. |        |                                       | iijai ii | ursery is  |  |    |
|     | (A)    | Phomopsis blight                      |          |  |  |    |
|     | (B)    | Leaf spot                             |          |  |  |    |
|     | (C)    | Wilt Downing off                      |          |  |  |    |
|     | (E)    | Damping off Answer not known          |          |  |  |    |
|     | 1 14 1 | A HOWAY DAY V DAWN                    |          |  |  |    |

| 55. | Lal b | oagh garden is located at            |        |                              |
|-----|-------|--------------------------------------|--------|------------------------------|
|     | (A)   | Delhi                                | (B)    | Kashmir                      |
|     | (0)   | Bangalore                            | (D)    | Pune                         |
|     | (E)   | Answer not known                     |        |                              |
|     |       |                                      | 2.     |                              |
| 56. | Find  | out the bulbous crop among the fol   | lowing |                              |
|     | (A)   | Cannas                               | (B)    | Dahlia                       |
|     | (C)   | Red hot poker                        | W)     | Sweet flag                   |
|     | (E)   | Answer not known                     |        |                              |
|     |       |                                      |        |                              |
| 7.  | Botan | nical name for copper shield tree is |        |                              |
|     | (A)   | Spathodea companulata                |        |                              |
|     | (I)   | Peltophorum ferrugineum              |        |                              |
|     | (C)   | Jacaranda Mimosaefolia               |        |                              |
|     | (D)   | Michelia champaca                    |        |                              |
|     | (E)   | Answer not known                     |        |                              |
| 1 - |       |                                      |        |                              |
| 8.  | Which | h of the following lawn grass is not | suitab | ole for open sunny situation |
|     | (A)   | Cynodon dactylon                     |        |                              |
|     | (3)   | Stenotaphrum secundatum              |        |                              |
|     | (C)   | Zoisia Japonica                      |        |                              |
|     | (D)   | Sporobolus tremulus                  |        |                              |
|     | (E)   | Answer not known                     |        |                              |
|     |       |                                      |        |                              |
| 9.  | Parki | a biglandulosa is commonly known     | as     |                              |
|     | M     | Badminton ball tree                  |        |                              |
|     | (B)   | Indian tulip tree                    |        |                              |
|     | (C)   | Bottle brush tree                    |        |                              |
|     | (D)   | Gul Mohar / May flower               |        |                              |
|     | (E)   | Answer not known                     |        |                              |
|     |       |                                      |        |                              |

| 60. | Curr  | y leaf belongs to the family                                     |        |                            |             |
|-----|-------|--|--------|----------------------------|-------------|
|     | (A)   | Caesalpiniaceae  | (B)    | Gultiferae                 |             |
|     | 4     | Rutaceae   | (D)    | Umbelliferae               |             |
|     | (E)   | Answer not known   |        |                            |             |
|     | •     |  |        |                            |             |
| 61. | The f | following statement about CNSL is                                | incorr | ect?                       |             |
|     | (A)   | CNSL is a phenolic compound                                      |        |                            |             |
|     | (B)   | CNSL contains anacardic acid                                     |        |                            |             |
|     | V     | CNSL is a white viscous fluid                                    |        |                            |             |
|     | (D)   | CNSL is obtained from cashew sh                                  | ell    |                            |             |
|     | (E)   | Answer not known   |        |                            |             |
|     |       |  |        |                            |             |
| 62. |       | the coarser canes of cinnamon, th<br>grade is known as           | e bark | is scrapped off instead of | peeling and |
|     | (A)   | Featherings  | (B)    | Unscraped chip             |             |
|     | (0)   | Scraped chips  | (D)    | Cinnamon powder            |             |
|     | (E)   | Answer not known   |        |                            |             |
|     |       |  |        |                            |             |
| 63. | The c | common physiological problems was                                | found  | l in garlic                |             |
|     | (A)   | Drying of leaves   |        |                            |             |
|     | 0     | Sprouting of bulbs in the field                                  |        |                            |             |
|     | (C)   | Small size of bulbs  |        |                            |             |
|     | (D)   | More number of bulbs   |        |                            |             |
|     | (E)   | Answer not known   |        | A STATE OF                 |             |
|     |       |  |        |                            |             |
| 64. |       | x pepper is commercially propagate<br>gh yielding, healthy vine. | d by c | uttings taken from —       | shoots      |
|     | (A)   | Geotropic shoots   |        |                            |             |
|     | (B)   | Plagiotropic shoots  |        |                            |             |
|     | (C)   | Orthotropic shoots   |        |                            |             |
|     | 1     | Runner shoots  |        |                            |             |
|     | (E)   | Answer not known   |        |                            |             |
|     |       |  |        |                            |             |

|     | (A)   | Tamil Nadu                          |           |             |
|-----|-------|-------------------------------------|-----------|-------------|
|     | (B)   | Andhra Pradesh                      | *         |             |
|     | (C)   | Kerala                              |           |             |
|     | 1     | Karnataka                           |           |             |
|     | (E)   | Answer not known                    |           |             |
|     | . 1   |                                     |           |             |
| 66. | CIM   | AP is located at                    |           | ,           |
|     | (A)   | Delhi                               | (3)       | Lucknow     |
|     | (C)   | Varanasi                            | (D)       | Pune        |
|     | (E)   | Answer not known                    |           |             |
|     |       |                                     |           |             |
| 67. | Larg  | est producer of clove is            |           |             |
|     | (A)   | Guatewala                           |           |             |
|     | (P)   | Indonesia                           |           |             |
|     | (C)   | India                               |           |             |
|     | (D)   | Chină                               |           |             |
|     | (E)   | Answer not known                    |           |             |
| 68. | The   | major alkaloid content in glorylill | y is      |             |
|     | W     | Colchicine                          | (B)       | Forskolin   |
|     | (C)   | Phyllanthin                         | (D)       | Solasodine  |
|     | (E)   | Answer not known                    |           |             |
|     |       |                                     |           | •           |
| 69. | The ' | Vinblastine extracted from periwi   | nkle is u | sed to cure |
|     | (A)   | Leukaemia                           |           |             |
|     | 0     | Hodgkins disease                    |           |             |
|     | (C)   | Alzimer                             |           | 7 7 7       |
|     | (D)   | Beri beri                           |           |             |
|     | (E)   | Answer not known                    |           |             |
|     |       |                                     |           |             |

National Research centre for cashew is located at

65.

| 70. | How   | many medicinal plant species                                   | in India is | threatened with extinction?           |
|-----|-------|--|-------------|---------------------------------------|
|     | (A)   | 300 Plant species  |             |                                       |
|     | (B)   | 400 Plant species  |             |                                       |
|     | (C)   | 660 Plant species  |             |                                       |
|     | (1)   | 744 Plant species  |             |                                       |
|     | (E)   | Answer not known   |             |                                       |
| 71. | Whic  | ch medicinal tree considered to                                | shelter for | Lord Shiva (God of health) in India   |
|     | W     | Bael : Aegle Marmdin   |             |                                       |
|     | (B)   | Terminialia arjuna   |             |                                       |
|     | (C)   | Neolamarckia cadamba   |             |                                       |
|     | (D)   | Commiphora molmol  |             |                                       |
|     | (E)   | Answer not known   |             |                                       |
| 72. | Glor  | y lilly is native of   |             |                                       |
|     | 4     | Asia and Africa  | (B)         | Europe                                |
|     | (C)   | North America  | (D)         | South America                         |
|     | (E)   | Answer not known   |             |                                       |
| 73. | Alcol | holic Fermentation preservatio                                 | n technolog | gy in vegetable involve               |
|     | W     | Yeast  | (B)         | Acetobactor                           |
|     | (C)   | Lactobacillus  | (D)         | Coccus lactis                         |
|     | (E)   | Answer not known   |             |                                       |
| 74. |       | oduct which contains about —<br>th and multiplication of micro |             | salt makes it most unfavorable for th |
|     | A     | 15   |             |                                       |
|     | (B)   | 25   |             |                                       |
|     | (C)   | 10   |             |                                       |
|     | (D)   | 5  |             |                                       |
|     | (E)   | Answer not known   |             |                                       |
|     |       |  |             |                                       |

| 15. | Artii | icial colouration of flowers is called  |
|-----|-------|---|
|     | (A)   | Painting  |
|     | 95    | Tinting   |
|     | (C)   | Colouring   |
|     | (D)   | Dipping   |
|     | (E)   | Answer not known  |
|     |       |   |
| 76. |       | ent waxes composed of 70 to 80% aliphatic hydrocarbons and about 25% atic hydrocarbons and solvents are used in ——————————————————————————————————— |
|     | (A)   | Mango   |
|     | (B)   | Banana  |
|     | (C)   | Grapes  |
|     | 4     | Citrus  |
|     | (E)   | Answer not known  |
|     |       |   |
| 77. | Roote | es of higher plants in associated with fungi is indicated by the term ————  |
|     | (A)   | Lichen  |
|     | (P)   | Mycorrhize  |
|     | (C)   | Helotism  |
|     | (D)   | Mutualism   |
|     | (E)   | Answer not known  |
|     |       |   |
| 78. | The r | nost popular method of planting system followed in hills  |
|     | (A)   | Quincunx system   |
|     | (B)   | Triangle system   |
|     | (C)   | Cluster system  |
|     | 0     | Contour system  |

(E)

| 79. | An e  | example for deciduous temperature fr                         | ruit   |   |    |  |  |  |  |  |  |
|-----|---|--|--------|---|----|--|--|--|--|--|--|
|     | (A)   | Litchi   | (B)    | Sapota  |    |  |  |  |  |  |  |
|     | 10  | Apple  | (D)    | Guava   |    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |        |   |    |  |  |  |  |  |  |
| 80. | Cent  | tre of excellence for cut flowers, a join                    | nt ver | nture of GOI and Govt of Israel is beir   | 18 |  |  |  |  |  |  |
|     | operated by Department of horticulture and plantation crops at ————   |  |        |   |    |  |  |  |  |  |  |
|     | UN  | Thally, Krishnagiri District Arur                            |        |   |    |  |  |  |  |  |  |
|     | (B)   | Arur, Dharmapuri District                                    |        |   |    |  |  |  |  |  |  |
|     | (C)   | Thenkani kottai, Krishnagiri Distr                           | rict   |   |    |  |  |  |  |  |  |
|     | (D)   | Pappiredipatti, Dharmapuri Distri                            | ict    |   |    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |        |   |    |  |  |  |  |  |  |
| 81. | Aoro  | ponics is the process of growing                             | nlan   | ts in ———— (or) ————  |    |  |  |  |  |  |  |
| 01. |   | out soil or an aggregate medium in s                         |        | [1] 20 NH : (1) 12 HH : (1) |    |  |  |  |  |  |  |
|     | 45  | Air or mist environment                                      |        |   |    |  |  |  |  |  |  |
|     | (B) Water or soil environment   |  |        |   |    |  |  |  |  |  |  |
|     | (C)   | Water (or) nutrient environment                              |        |   |    |  |  |  |  |  |  |
|     | (D)   | Soil (or) water environment                                  |        |   |    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |        |   |    |  |  |  |  |  |  |
| 00  | Ć.  |  |        | tu under TN es energive assistica a   | -  |  |  |  |  |  |  |
| 82. | The primary horticulture co-operative society under TN co-operative societies act 1982 was established in Tamil nadu is called as |  |        |   |    |  |  |  |  |  |  |
|     | 45  | TAN HOPE Ltd.,   | (B)    | TAN HODA  |    |  |  |  |  |  |  |
|     | (C)   | TNHDA  | (D).   | TBM   |    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |        |   |    |  |  |  |  |  |  |
| 83. | The   | The maximum area under hydroponics is in —————————— country. |        |   |    |  |  |  |  |  |  |
|     | (A)   | Netherlands  |        |   |    |  |  |  |  |  |  |
|     | <b>E</b>  | Israel Israel  |        |   |    |  |  |  |  |  |  |
|     | (C)   | Egypt  |        |   |    |  |  |  |  |  |  |
|     |   | (D) Italy  |        |   |    |  |  |  |  |  |  |
|     | (E)   | Answer not known   |        |   |    |  |  |  |  |  |  |

| 84. | The v | The vernalization involves the formation of a floral hormone is called as |          |  |  |  |  |  |  |
|-----|-------|---|----------|--|--|--|--|--|--|
|     | (A)   | Florigan  | (B)      | Auxin                                  |  |  |  |  |  |
|     | 4     | Vernalin  | (D)      | Abscisic acid                          |  |  |  |  |  |
|     | (E)   | Answer not known  |          |  |  |  |  |  |  |
|     | *     |   |          |  |  |  |  |  |  |
| 85. | In wh | which fruit crop the fruit develops ev                                    | en wit   | hout the stimulus from pollination     |  |  |  |  |  |
|     | 4     | Japanese Persimmun  |          |  |  |  |  |  |  |
|     | (B)   | Passion fruit   |          |  |  |  |  |  |  |
|     | (C)   | Grapes  |          |  |  |  |  |  |  |
|     | (D)   | Dragon fruit  |          |  |  |  |  |  |  |
| •   | (E)   | Answer not known  |          |  |  |  |  |  |  |
|     |       |   |          |  |  |  |  |  |  |
| 86. | The c | concrete recovery from Jasmine gra  | ndiflor  | rum is                                 |  |  |  |  |  |
|     | (A)   | 0.33 per cent   | 95       | 0.27 per cent                          |  |  |  |  |  |
|     | (C)   | 0.19 per cent   | (D)      | 0.50 per cent                          |  |  |  |  |  |
|     | (E)   | Answer not known  | ** ; ;   |  |  |  |  |  |  |
|     |       |   |          |  |  |  |  |  |  |
| 87. | The p | phenomenon in which more embryo   | es are   | present within a single seed is called |  |  |  |  |  |
|     | (A)   | Parthenocarpy   |          |  |  |  |  |  |  |
|     | P     | Polyembryony  |          |  |  |  |  |  |  |
|     | (C)   | Pollination   |          |  |  |  |  |  |  |
|     | (D)   | Propagation   |          |  |  |  |  |  |  |
|     | (E)   | Answer not known  |          |  |  |  |  |  |  |
|     | *     |   |          |  |  |  |  |  |  |
| 88. | Why s | seedless triploid guava not popular                                       | rized fo | r commercial cultivation               |  |  |  |  |  |
|     | 4     | Due to irregular-fruit shape  |          |  |  |  |  |  |  |
|     | (B)   | Due to less number of fruits per tr                                       | ree      |  |  |  |  |  |  |
|     | (C)   | Due to poor quality of fruits   |          |  |  |  |  |  |  |
|     | (D)   | Due to poor adaptability  |          |  |  |  |  |  |  |
|     | (E)   | Answer not known  |          |  |  |  |  |  |  |
|     |       |   |          |  |  |  |  |  |  |

|     |      |                                    |            | [통화생 [1] [1] 이 [1] 시민을 하고 있는데 그들은 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 |  |  |  |  |  |
|-----|------|------------------------------------|------------|---|--|--|--|--|--|
| 89. | The  | chance of transmission of virus of | an be red  | luced by  |  |  |  |  |  |
|     | W    | Seed propagation                   | (B)        | Clonal propagation  |  |  |  |  |  |
|     | (C)  | Asexual propagation                | (D)        | Through plant parts   |  |  |  |  |  |
|     | (E)  | Answer not known                   |            |   |  |  |  |  |  |
|     |      |                                    |            |   |  |  |  |  |  |
| 90. |      | varieties can be propag            | ated by se | eed.  |  |  |  |  |  |
|     | (A)  | Mono embryonic                     | (B)        | Embryonic   |  |  |  |  |  |
|     | 45   | Poly embryonic varieties           | (D)        | Dioecious   |  |  |  |  |  |
|     | (E)  | Answer not known                   |            |   |  |  |  |  |  |
|     |      |                                    |            |   |  |  |  |  |  |
| 91. | The  | seeds can be safely dried to low r | noisture o | content and the storability of such see                               |  |  |  |  |  |
|     |      | ove with the lowering of seed mo   | oisture is |   |  |  |  |  |  |
|     | (A)  | Wet seeds                          |            | Orthodox  |  |  |  |  |  |
|     | (C)  | Dry seeds                          | (D)        | Recalcitrant  |  |  |  |  |  |
|     | (E)  | Answer not known                   |            |   |  |  |  |  |  |
|     |      |                                    |            |   |  |  |  |  |  |
| 92. | Facu | ltative apomicts can be defined a  | ıs         |   |  |  |  |  |  |
|     | 1.   | The embryo is produced from v      | egetative  | cells   |  |  |  |  |  |
|     | 2.   | The embryo is produced from s      | exual cell | s   |  |  |  |  |  |
|     | 3.   | The embryo is produced by bot      | h vegetat  | ive and sexual cells  |  |  |  |  |  |
|     | (A)  | Both (1) and (2) is correct        |            |   |  |  |  |  |  |
|     | (B)  | Both (2) and (3) is correct        |            |   |  |  |  |  |  |
|     | (C)  | Only (1) is correct                |            |   |  |  |  |  |  |
|     | 0    | Only (3) is correct                |            |   |  |  |  |  |  |
|     | (E)  | Answer not known                   |            |   |  |  |  |  |  |
|     |      |                                    |            |   |  |  |  |  |  |
| 93. |      | th of the following plant expresse | s double   | dormancy?   |  |  |  |  |  |
|     | (A)  | Psidium guajava                    |            |   |  |  |  |  |  |
|     | (B)  |                                    |            |   |  |  |  |  |  |
|     |      | Cercis occidentals                 |            |   |  |  |  |  |  |
|     | (D)  | Pinus sp                           |            | the artist adaption of the second                                     |  |  |  |  |  |
|     | (E)  | Answer not known                   |            |   |  |  |  |  |  |

| 94. | Ma  | tch th | e follow: | ing :     |        |                     |   |      |
|-----|---|--------|-----------|-----------|--------|---------------------|---|------|
| •   |   | List   |           |           |        |                     | List II                                   |      |
|     | (a)   |        | post      |           |        | 1.                  | Daincha                                   |      |
|     | (b)   |        | en manı   | ire       |        | 2.                  | Synthetic farmyard manure                 |      |
|     | (c)   |        | en leaf n |           |        | 3.                  | Eudrilus enginial                         |      |
|     | (d)   |        | micompo   |           |        | 4.                  | Pingamiapinnate                           |      |
|     | (-)   |        |           |           |        |                     |   |      |
|     |   | (a)    | (b)       | (c)       | (d)    |                     |   |      |
|     | (A)   | 1      | 2         | 3         | 4      |                     |   |      |
|     | D   | 2      | 1         | 4         | 3      |                     |   |      |
|     | (C)   | 2      | 4         | 1         | 3      |                     |   |      |
|     | (D)   | 4      | 3         | 2         | 1      |                     |   |      |
|     | (E)   | Ans    | wer not   | known     |        |                     |   |      |
| 95. | Mat   | tch th | e followi | ing:      |        |                     |   |      |
|     |   | List   |           |           |        |                     | List II                                   |      |
|     | (a)   | Biof   | ertilizer |           |        | 1.                  | Uptake of water                           |      |
|     | (b)   |        |           | y.        | 2.     | Phosphorus          |   |      |
|     | (c)   |        |           |           | 3.     | Microbial inoculant |   |      |
|     | (d)   | VAN    |           |           |        | 4.                  | Nitrogen fixation                         |      |
|     |   | (a)    | (b)       | (c)       | (d)    |                     |   |      |
|     | (A)   | 1      | 2         | 3         | 4      |                     |   |      |
|     | (B)   | 3      | 1         | 4         | 2      |                     |   |      |
|     | 45  | 3      | 4         | 2         | 1      |                     |   |      |
|     | (D)   | 3      | 4         | 1         | 2      |                     |   |      |
|     | (E)   | Ans    | wer not   | known     |        |                     |   |      |
| 96. | Nut   | rients | require   | ed by pla | nts in | smal                | l quantities for their growth and develor | ment |
|     | w   |        | , Bo, Mo  |           |        |                     | (B) Ca, Mg, S                             |      |
|     | (C)   |        | P, K      |           |        |                     |   |      |
|     | (C)   |        |           |           |        |                     | (D) C, H,O                                |      |
|     | (E)   | An     | swer not  | known     |        |                     |   |      |
| 97. | Iron deficiency in young leaves of Banana exhibit |        |           |           |        |                     |   |      |
|     | 45  | Int    | erveinal  | chloros   | is     | 4                   | (B) Bunching of leaves                    |      |

Buckling of leaf blade along midrib (D) Die back of twigs

(C)

(E)

| 98.  | During which month flower induction takes place in pomegranate called as Bahar |  |        |                            |  |  |  |  |  |  |
|------|--|--|--------|----------------------------|--|--|--|--|--|--|
|      | (A)  | April – May                              | 98     | June – July                |  |  |  |  |  |  |
|      | (C)  | August – September                       | (D)    | October - November         |  |  |  |  |  |  |
|      | (E)  | Answer not known                         |        |                            |  |  |  |  |  |  |
| 99.  | Mead   | dow orchanding were first followed in    | ı —    | fruit crop.                |  |  |  |  |  |  |
|      | (A)  | Pear                                     | (B)    | Plum                       |  |  |  |  |  |  |
|      | (C)  | Mango                                    | 4      | Apple                      |  |  |  |  |  |  |
|      | (E)  | Answer not known                         |        |                            |  |  |  |  |  |  |
| 100. | Late   | x tapping should be done on how ma       | ny da  | ys old papaya unripe fruit |  |  |  |  |  |  |
|      | (A)  | 55 days                                  | (B)    | 60 days                    |  |  |  |  |  |  |
|      | (C)  | 30 days                                  | 0      | 70 days                    |  |  |  |  |  |  |
|      | (E)  | Answer not known                         |        |                            |  |  |  |  |  |  |
| 101. | Whic   | h of the following fruit is called as ki | ing of | temperate fruits?          |  |  |  |  |  |  |
|      | (A)  | Pear                                     | (B)    | Peach                      |  |  |  |  |  |  |
|      | 101  | Apple                                    | (D)    | Kiwi fruit                 |  |  |  |  |  |  |
|      | (E) .  | Answer not known                         |        |                            |  |  |  |  |  |  |
| 102. |  | ——— is the Nematode resistant re         | oots l | acks of grape              |  |  |  |  |  |  |
|      | W  | Dog ridge                                | (B)    | Sebanis 12                 |  |  |  |  |  |  |
|      | (C)  | Riparia Clorie                           | (D)    | Rupestris St. George       |  |  |  |  |  |  |
|      | (E)  | Answer not known                         |        |                            |  |  |  |  |  |  |
| 103. | Erect  | growing of upper leaves of pineappl      | e is u | seful to                   |  |  |  |  |  |  |
|      | (A)  | Produce more suckers on the plant        |        |                            |  |  |  |  |  |  |
|      | (B)  | Produce more fruits on the plant         |        |                            |  |  |  |  |  |  |
|      | 15   | Protect the fruit from suns arch         |        |                            |  |  |  |  |  |  |
|      | (D)  | Protects the fruits from rot disease     |        |                            |  |  |  |  |  |  |
|      | (E)  | Answer not known                         |        |                            |  |  |  |  |  |  |
|      |  |  |        |                            |  |  |  |  |  |  |

| 104. | In cu      | cumber, high temperature promot                   | es —         | — flowers.                    |
|------|------------|---|--------------|-------------------------------|
|      | <b>(</b> ) | Male  | (B)          | Female                        |
|      | (C)        | Bisexual  | (D)          | Gynomonoecious                |
|      | (E)        | Answer not known                                  |              |                               |
|      |            |   |              |                               |
| 105. |            | th of the following nutrient is flower are grown? | deficient in | acidic soils where cabbage an |
|      | (A)        | K   | (B)          | P                             |
|      | 4          | MO  | (D)          | S                             |
|      | (E)        | Answer not known                                  |              |                               |
| -    |            |   |              |                               |
| 106. | Black      | k heart in potato is due to lack of               |              |                               |
|      | 18         | Oxygen  |              |                               |
|      | (B)        | Carbon dioxide                                    |              |                               |
|      | (C)        | Sulphur dioxide                                   |              |                               |
|      | (D)        | Carbon mono oxide                                 |              |                               |
|      | (E)        | Answer not known                                  |              |                               |
|      |            |   |              |                               |
| 107. | Seed       | plot technique is followed in                     |              |                               |
|      | (A)        | Cucurbits   | (B) Cole     | ocasia                        |
|      | 4          | Potato  | (D) Swe      | eet potato                    |
|      | (E)        | Answer not known                                  |              |                               |
|      |            |   |              |                               |
| 108. | Ploid      | ly level of bhendi is                             |              |                               |
|      | (A)        | Triploid  |              |                               |
|      | (B)        | Tetraploid  |              |                               |
|      | (C)        | Diploid   |              |                               |
|      | W/         | Amphidiploid                                      |              |                               |

(E)

| 109. | The b | he botanical name of umbrella plant grown in water garden is |        |                                     |  |  |  |  |
|------|-------|--|--------|-------------------------------------|--|--|--|--|
|      | 4     | Cyperus alternifolius  | (B)    | Sagittaria Sagittal folia           |  |  |  |  |
|      | (C)   | Acorus calamus   | (D)    | Calla palustrics                    |  |  |  |  |
|      | (E)   | Answer not known   |        |                                     |  |  |  |  |
|      |       |  |        |                                     |  |  |  |  |
| 110. | Flowe | ering time of antigonon leptopus is                          |        |                                     |  |  |  |  |
|      | S     | July - October   |        |                                     |  |  |  |  |
|      | (B)   | January – February   |        |                                     |  |  |  |  |
|      | (C)   | March - April  |        |                                     |  |  |  |  |
|      | (D)   | Round the year   |        |                                     |  |  |  |  |
|      | (E)   | Answer not known   |        |                                     |  |  |  |  |
|      |       |  |        |                                     |  |  |  |  |
| 111. | Which | n of the following is a non plant com                        | pone   | nt in a garden?                     |  |  |  |  |
|      | (A)   | Topiary  | (B)    | Trophy                              |  |  |  |  |
|      | (C)   | Rockery  | 0      | Fountain                            |  |  |  |  |
|      | (E)   | Answer not known   |        |                                     |  |  |  |  |
|      |       |  |        |                                     |  |  |  |  |
| 112. |       | divisions of Horticulture which is onally are                | impa   | ct the environment aesthetically or |  |  |  |  |
|      | 4     | Ornamental Horticulture landscap                             | e arcl | hitecture                           |  |  |  |  |
|      | (B)   | Ornamental Horticulture fruits                               |        |                                     |  |  |  |  |
|      | (C)   | Landscape architecture, vegetables                           |        |                                     |  |  |  |  |
|      | (D)   | Fruits and vegetables  |        |                                     |  |  |  |  |
|      | (E)   | Answer not known   |        |                                     |  |  |  |  |
|      |       |  |        |                                     |  |  |  |  |
| 113. | Damp  | oing off disease is common in                                |        |                                     |  |  |  |  |
|      | (A)   | Tube rose  | (B)    | Rose                                |  |  |  |  |
|      | 0     | Marigold   | (D)    | Gladiolus                           |  |  |  |  |
|      | (E)   | Answer not known   |        |                                     |  |  |  |  |
|      |       |  |        |                                     |  |  |  |  |

| 114. | Write | e the turmeric species contain mango flavour and taste in the rhizome  |
|------|-------|--|
|      | (A)   | Cucurcuma aromatica  |
|      | (B)   | Curcuma angustifolia   |
|      | 40    | Curcuma amada  |
|      | (D)   | Curcuma zedoaria   |
|      | (E)   | Answer not known   |
|      |       |  |
| 115. | Visw  | ashree is the variety of   |
|      | (A)   | Cardomom   |
|      | (B)   | Cinnamon   |
|      | (C)   | Clove  |
|      | W/    | Nutmeg   |
|      | (E)   | Answer not known   |
|      |       |  |
| 116. | Cinn  | amomum aromaticum is commonly grown in   |
|      | 48    | China  |
|      | (B)   | Java, Sumatra  |
|      | (C)   | Vietnam  |
|      | (D)   | Tropical and subtropical Himalayas   |
|      | (E)   | Answer not known   |
|      |       |  |
| 117. |       | ffee, the removal of small sprouts arising from the axis of the leaves which wise grows towards inner side and cause shade is known as |
|      | (A)   | Centering  |
|      | (B)   | De-Suckering   |
|      | 0     | Handling   |
|      | (D)   | Nipping  |
|      | (E)   | Answer not known   |
|      |       |  |
|      |       |  |

| 118. | National Research centre on medicinal and aromatic crop is located at |  |                          |       |  |  |  |  |  |  |
|------|---|--|--------------------------|-------|--|--|--|--|--|--|
|      | (A)   | Bangaluru – Karnataka                            |                          |       |  |  |  |  |  |  |
|      | 1   | Anand – Gujarat                                  |                          |       |  |  |  |  |  |  |
|      | (C)   | Kolkatta – West Bengal                           |                          |       |  |  |  |  |  |  |
|      | (D)   | Hyderabad – Andhra Pradesh                       |                          |       |  |  |  |  |  |  |
|      | (E)   | Answer not known                                 |                          |       |  |  |  |  |  |  |
|      |   |  |                          |       |  |  |  |  |  |  |
| 119. | Wha   | t is the oil recovery percent from l             | emon grass               |       |  |  |  |  |  |  |
|      | (A)   | 1 – 2%   | (B) 3 – 5%               |       |  |  |  |  |  |  |
|      | 48  | 0.3 to 0.5%                                      | (D) 5 – 8%               |       |  |  |  |  |  |  |
|      | (E)   | Answer not known                                 |                          |       |  |  |  |  |  |  |
|      |   |  |                          |       |  |  |  |  |  |  |
| 120. |   | ikanal-1 Geranium gives ———er hectare            | —— tonnes of herbage and | kg of |  |  |  |  |  |  |
|      | (A)   | 40.5 to and 50.5 kg                              |                          |       |  |  |  |  |  |  |
|      | (B)   | 25.5 to and 30.0 kg                              |                          |       |  |  |  |  |  |  |
|      | (C)   | 50.3 to and 60.0kg                               |                          |       |  |  |  |  |  |  |
|      | 0   | 45.2 tonnes and 54.0 kg                          |                          |       |  |  |  |  |  |  |
|      | (E)   | Answer not known                                 |                          |       |  |  |  |  |  |  |
|      |   |  |                          |       |  |  |  |  |  |  |
| 121. | Trish   | na is a variety of                               |                          |       |  |  |  |  |  |  |
|      | (A)   | Vettiver   |                          |       |  |  |  |  |  |  |
|      | 0   | Palmarosa  |                          |       |  |  |  |  |  |  |
|      | (C)   | Geranium   |                          |       |  |  |  |  |  |  |
|      | (D)   | Mint   |                          |       |  |  |  |  |  |  |
|      | (E)   | Answer not known                                 |                          |       |  |  |  |  |  |  |
|      |   |  |                          |       |  |  |  |  |  |  |
| 122. | The f   | lower colour of <u>Vinca</u> rosea var <u>oc</u> | <u>llates</u> is         |       |  |  |  |  |  |  |
|      | (A)   | White  |                          |       |  |  |  |  |  |  |
|      | (B)   | Yellow with purple spot in the co                | ntre                     |       |  |  |  |  |  |  |
|      | (C)   | Yellow   |                          |       |  |  |  |  |  |  |
|      | 0   | White with rose-purple spot in t                 | e centre                 |       |  |  |  |  |  |  |
|      | (E)   | Answer not known                                 |                          |       |  |  |  |  |  |  |
|      |   |  |                          |       |  |  |  |  |  |  |

| 123. | Nati | onal plant quarantine centre location of                         |           |   |             |    |
|------|------|--|-----------|---|-------------|----|
|      | (4)  | New Delhi  |           |   |             |    |
|      | (B)  | Gujarath   |           |   |             |    |
|      | (C)  | Mumbai   |           | **<br>*********************************** |             |    |
|      | (D)  | Vishakapattinam  |           |   |             |    |
|      | (E)  | Answer not known   |           |   |             |    |
|      |      |  |           | *   |             |    |
| 124. | Whic | ch of the following is incorrectly matched?                      |           |   |             |    |
|      | (A)  | Sweet potato – Lye peeling                                       |           |   |             |    |
|      | (B)  | Carrot – Scrapping   |           |   |             |    |
|      | (C)  | Beans - Snipping   |           |   |             |    |
|      |      | Tomato – Flame peeling   |           |   |             |    |
|      | (E)  | Answer not known   |           |   |             |    |
|      | (12) | Answer not known   |           |   |             |    |
| 125. |      | finished jam should contain ———————————————————————————————————— | st sugar  | (or) glud                                 | cose to avo | id |
|      | (A)  | 10 – 20%   |           |   |             |    |
|      | 01   | 30 – 50%   |           |   |             |    |
|      | (C)  | 20 – 30%   |           |   |             |    |
|      | (D)  | 50 – 60%   | ,         | 1   |             |    |
|      | (E)  | Answer not known   |           |   |             |    |
|      |      |  |           |   |             |    |
| 126. | Modi | fied Atmosphere packaging, during respiration prod               | ess incre | eases the                                 | )           |    |
|      | is   | Carbon dioxide content   |           |   |             |    |
|      | (B)  | Oxygen content   |           |   |             |    |
|      | (C)  | Sulphur dioxide content  |           |   |             |    |
|      |      |  |           |   |             |    |

28

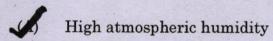
(D)

(E)

Nitrogen content

| 127. | The | fruit crop most suitable for growing in polyhouse is |
|------|-----|--|
|      | (A) | Mango  |
|      | (B) | Hill Banana  |

- (C) Papaya
- 1 Strawberry
- (E) Answer not known
- 128. The weather parameter highly required for improved fruit set in custard apple is



- (B) High temperature
- (C) Low temperature
- (D) High wind velocity
- (E) Answer not known
- 129. Major importer of floriculture



- (B) UAE
- (C) Russia
- (D) China
- (E) Answer not known

| 130. | The      | major importer of spices from India  |
|------|----------|--|
|      | (A)      | UAE  |
|      | 1        | USA  |
|      | (C)      | Russia   |
|      | (D)      | UK   |
|      | (E)      | Answer not known   |
|      |          |  |
|      |          |  |
| 131. | The '    | World largest producer of Coconut  |
|      | (A)      | Indonesia  |
|      | <b>F</b> | India  |
|      | (C)      | Malaysia   |
|      | (D)      | Brazil de la constant |
|      | (E)      | Answer not known   |
|      |          |  |
|      |          |  |
| 132. |          | Pomegranate, Aonla Date palm, wood apple, coriander cumin, and fennel are  |
|      |          | ly grown in ———— zone.   |
|      | (A)      | Southern hilly   |
|      | (B)      | North Eastern Subtropical humid  |
|      | 4        | North Western arid   |
|      | (D)      | South Central Tropical   |
|      | (E)      | Answer not known   |
|      |          |  |

| 133. | The  | seedlessness in guava variety is | s due to    |                        |
|------|------|----------------------------------|-------------|------------------------|
|      | 41)  | Triploidness                     |             |                        |
|      | (B)  | Parthenocarpy                    |             |                        |
|      | (C)  | Apomixis                         |             |                        |
|      | (D)  | Self incompatibility             |             |                        |
|      | (E)  | Answer not known                 |             |                        |
| 134. | The  | primitive growth phase represe   | nting in gr | rowth curve is         |
|      | 43   | Formative phase                  | (B)         | Cell enlargement phase |
|      | (C)  | Maturation phase                 | .(D)        | Stationary phase       |
|      | (E)  | Answer not known                 |             |                        |
| 135. | Frui | t buds always borne adventitiou  | ısly in old | trunk or shoots in     |
|      | (A)  | Brinjal                          |             |                        |
|      | (B)  | Mango                            | -           |                        |
|      | 4    | Cocoa                            |             |                        |
|      | (D)  | Grapes                           |             |                        |
|      | (E)  | Answer not known                 |             |                        |
| 136. | Whic | ch is the woody temperate decid  | uous, drup  | e type fruits          |
|      | (A)  | Avocado                          | (8)         | Apricot                |
|      | (C)  | Mango                            | (D)         | Logan                  |
|      | (E)  | Answer not known                 |             |                        |
| 137. |      | ——— is a short day plant         |             |                        |
| 10   | (A)  | Onion                            |             |                        |
|      | P    | Sweet Potato                     |             |                        |
|      | (C)  | Carrot                           |             |                        |
|      | (D)  | Cassava                          |             |                        |
|      | (E)  | Answer not known                 |             |                        |
|      | ()   | TALDITOL HOU HILLOWIL            |             |                        |

| 138. | is a form of controlled seed hydration that can improve the germination properties of a seed lot, particularly germination rate uniformly and viability of seeds |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|--|
|      | (A)  | Seed pelleting   |  |  |  |  |  |  |  |
|      | 0  | Seed priming   |  |  |  |  |  |  |  |
|      | (C)  | Seed coating   |  |  |  |  |  |  |  |
|      | (D)  | Seed Stratification  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |  |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |  |  |
| 139. |  | medium for filling protreys will have 3:1:1 ratio of   |  |  |  |  |  |  |  |
|      | (A)  | Vermiculite- Perlite -Cocopeat   |  |  |  |  |  |  |  |
|      | (B)  | Perlite-Cocopeat-Sphagnum  |  |  |  |  |  |  |  |
|      | 6  | Cocopeat-Vermiculite, Perlite  |  |  |  |  |  |  |  |
|      | (D) Leafmould, Cocopeat-Perlite  |  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |  |  |  |  |  |  |  |
| 140. | forma  | aldehyde sold for horticultural use is a solution containing 37.5 to 40.5 percent aldehyde gas and is usually referred to as ——————————————————————————————————— |  |  |  |  |  |  |  |
|      | A  | 40%  |  |  |  |  |  |  |  |
|      | (B)  | 48%  |  |  |  |  |  |  |  |
|      | (C)  | 30%  |  |  |  |  |  |  |  |
|      | (D)  | 25%  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |  |  |  |  |  |  |  |
|      |  |  |  |  |  |  |  |  |  |
| 141. | This   | is not suitable for growing in poly houses   |  |  |  |  |  |  |  |
|      | (A)  | Tomato   |  |  |  |  |  |  |  |
|      | (B)  | Cucumber   |  |  |  |  |  |  |  |
|      | 0  | Brinjial   |  |  |  |  |  |  |  |
|      | (D)  | Capsicum   |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |  |  |  |  |  |  |  |

Match the column A with, its respective PF of values in Column B 142.

Column A

Column B (PF values)

- (a) Saturated soil
- 1. 4.18
- (b) Field capacity
- 2. 0.0

(c) Wilting point

- 3. 4.50
- (d) Hygroscopic point
- 4. 2.53

- (a) 2
- (b)
- (c) (d)
- 3
- 3

1

1

- 4 (B)
- 2
- (C) 3
- 4

1

- (D) 1
- 3
- 2
- (E) Answer not known

Ascertain (A): Gypsum is not recommended for acid soil reclamation. 143.

Reason (R): Gypsum on dissociation give sulphate anion which produces mineral acid H2SO4 and increases soil acidity further.

- (A) (A) is true (R) is false
- (B) Both (A) and (R) is false
- (A) is true and (R) is the correct explanation of (A)
- (D) (A) is true and but (R) is not correct explanation
- (E) Answer not known

Characteristic deficiency symptom of phosphorus in plant is 144.

- (A) Chlorosis along the leaf margins followed by scorching
- (B) Death of growing points viz, but blossoms and root tips
- Purple leaf coloration
- Interveinal chlorosis of young leaves (D)
- (E) Answer not known

145. The extend of phosphorus use efficiency of added fertilizer is

(A) 40% 20%

60% (C)

(D) 10%

| 146. | What is chilling hours required for cultivation of apple (<7°C) |                                    |         |                  |  |  |  |  |  |
|------|---|------------------------------------|---------|------------------|--|--|--|--|--|
|      | (A)   | 800–1000 hrs                       | (B)     | 900–1000 hrs     |  |  |  |  |  |
|      | 405   | 1000–1500 hrs                      | (D)     | 1500–2000 hrs    |  |  |  |  |  |
|      | (E)   | Answer not known                   |         |                  |  |  |  |  |  |
|      |   |                                    |         |                  |  |  |  |  |  |
| 147. | The b   | panana fruit is — type.            |         |                  |  |  |  |  |  |
|      | (A)   | Pome                               | (B)     | Drupe            |  |  |  |  |  |
|      | (C)   | Hesperidium                        | 45      | Berry            |  |  |  |  |  |
|      | (E)   | Answer not known                   |         |                  |  |  |  |  |  |
|      |   |                                    |         |                  |  |  |  |  |  |
| 148. | The t   | axonomic score of Dwarf Cavendis   | h varie | ety of Banana is |  |  |  |  |  |
|      | (A)   | 46-48                              | (B)     | 26-46            |  |  |  |  |  |
|      | 495   | 15-21                              | (D)     | 63-69            |  |  |  |  |  |
|      | (E)   | Answer not known                   |         |                  |  |  |  |  |  |
|      | V   |                                    |         |                  |  |  |  |  |  |
| 149. | The f   | ollowing banana variety has one fe | emale   | hase             |  |  |  |  |  |
|      | (A)   | Rasthali                           | (3)     | Moongil          |  |  |  |  |  |
|      | (C)   | Nendran                            | (D)     | Anaikomban       |  |  |  |  |  |
|      | (E)   | Answer not known                   | 3       |                  |  |  |  |  |  |
|      |   |                                    |         | the section      |  |  |  |  |  |
| 150. | Peacl   | n originated from which country?   |         |                  |  |  |  |  |  |
|      | 45  | Persia                             | (B)     | Peru             |  |  |  |  |  |
|      | (C)   | Brazil                             | (D)     | Europe           |  |  |  |  |  |
|      | (E)   | Answer not known                   |         |                  |  |  |  |  |  |
|      |   |                                    |         |                  |  |  |  |  |  |
| 151. | Bana  | na is a rich source of             |         |                  |  |  |  |  |  |
|      | (A)   | Protein                            | 45)     | Energy           |  |  |  |  |  |
|      | (C)   | Calcium                            | (D)     | Vitamin E        |  |  |  |  |  |
|      | (E) Answer not known  |                                    |         |                  |  |  |  |  |  |

| 152. | True | e potato seed is pr | potato seed is produced to control which disease |                 |        |  |  |  |
|------|------|---------------------|--|-----------------|--------|--|--|--|
|      | (A)  | Early blight        |  | E.              | (B)    | Late blight  |  |  |
|      | 405  | Viral infection     |  |                 | (D)    | Bacterial blight   |  |  |
|      | (E)  | Answer not kno      | wn   |                 |        | See the A. C. Constantial Cons |  |  |
| 153. | Gyn  | oecious lines are c | omm  | ercially utilis | ed for | hybrid seed production in  |  |  |
|      | (A)  | Cabbage             |  |                 | (B)    | Cauliflower  |  |  |
|      | (5)  | Cucumber            |  |                 | (D)    | Coccinea   |  |  |
|      | (E)  | Answer not kno      | wn   |                 |        |  |  |  |
| 154. | Ama  | ranthus pollinatio  | n is   |                 |        |  |  |  |
|      | (A)  | Entomophillus       |  |                 | 0      | Anemophilous   |  |  |
| 1    | (C)  | Heterophyllus       |  |                 | (D)    | Cleistogamus   |  |  |
|      | (E)  | Answer not know     | wn   |                 |        |  |  |  |
|      |      |                     |  |                 |        |  |  |  |
| 155. | Rou  | d seeded varieties  |  |                 |        | - then the Wrinkled seeded.  |  |  |
|      |      | More tolerant to    |  |                 |        |  |  |  |
|      | (B)  | Less tolerant to    |  |                 |        |  |  |  |
|      | (C)  | More tolerant to    | low  | temperature     |        |  |  |  |
|      | (D)  | Less tolerant to    | low t  | emperature      |        | A STATE OF THE STA |  |  |
|      | (E)  | Answer not know     | wn   | (               |        |  |  |  |
| .56. | Whic | h of the following  | pair   | is matched?     |        |  |  |  |
|      | a.   | Potato              | -  | Bulb            |        |  |  |  |
|      | b.   | Sweet potato        | _  | Tuber           |        |  |  |  |
|      | c.   | Tapioca             |  | Rhizome         |        |  |  |  |
|      | d.   | Colocasia           | _  | Cutting         |        |  |  |  |
|      | (A)  | a                   |  |                 |        |  |  |  |
|      | P    | b                   |  |                 |        |  |  |  |
|      | (C)  | c                   |  |                 |        |  |  |  |
|      | (D)  | d                   |  |                 |        |  |  |  |
|      | (E)  | Answer not know     | vn   |                 |        |  |  |  |

|      | (A)                 | A) Gladiolus         |           |          |                 | Gerbera          |                      |  |  |  |  |
|------|---------------------|----------------------|-----------|----------|-----------------|------------------|----------------------|--|--|--|--|
|      | (C)                 | Or                   | chids     |          |                 | (D) Jasmine      |                      |  |  |  |  |
|      | (E)                 | Answer not known     |           |          |                 |                  |                      |  |  |  |  |
|      |                     |                      |           |          |                 |                  |                      |  |  |  |  |
| 158. | Inte                | ervein               | al chlore | osis on  | older le        | eaves of gerbera | is due to deficiency |  |  |  |  |
|      | (A)                 | Nit                  | trogen    |          | (P) Magnesium   |                  |                      |  |  |  |  |
|      | (C)                 | Ca                   | lcium     |          |                 | (D)              | Phosphorus           |  |  |  |  |
|      | (E)                 | An                   | swer no   | t know   | n ·             |                  |                      |  |  |  |  |
|      |                     |                      |           |          |                 |                  |                      |  |  |  |  |
| 159. | Match the following |                      |           |          |                 |                  |                      |  |  |  |  |
|      | (a) Paphiopedilum   |                      |           | 1.       | Dancing lady    |                  |                      |  |  |  |  |
|      | (b)                 | Oncidium             |           |          | 2.              | Spider orchid    |                      |  |  |  |  |
|      | (c)                 | Phalaenopsis         |           | 3.       | Slipper orchids |                  |                      |  |  |  |  |
|      | (d)                 | Van                  | da        |          | 4.              | Moth orchid      |                      |  |  |  |  |
|      |                     | (a)                  | (b)       | (c)      | (d)             |                  |                      |  |  |  |  |
|      | (A)                 | 4                    | 3         | 1        | 2               |                  |                      |  |  |  |  |
|      | 0                   | 3                    | 1         | 4        | 2               |                  |                      |  |  |  |  |
|      | (C)                 | 4                    | 2         | 1        | 3               |                  |                      |  |  |  |  |
|      | (D)                 | 3                    | 4         | 1        | 2               |                  |                      |  |  |  |  |
|      | (E)                 | An                   | swer no   | t knowi  | n               |                  |                      |  |  |  |  |
|      |                     |                      |           |          |                 |                  |                      |  |  |  |  |
| 160. | The                 | gall r               | nite resi | istant v | ariety          | of mullai is     |                      |  |  |  |  |
|      | (A)                 | CO                   | 1         |          |                 | (B)              | CO <sub>2</sub>      |  |  |  |  |
|      | (C)                 | Arl                  | ka Sural  | ohi      |                 | 95)              | Parimullai           |  |  |  |  |
|      | (E)                 | (E) Answer not known |           |          |                 |                  |                      |  |  |  |  |
|      |                     |                      | +         |          |                 |                  |                      |  |  |  |  |
| 161. | The                 | jasm                 | inum sp   | ecies pr | roducin         | g yellow colour  | ed flowers is        |  |  |  |  |
|      | (A)                 | Jas                  | minum     | auricul  | latum           |                  |                      |  |  |  |  |
|      | (B)                 | Jas                  | minum     | grandi   | florum          |                  |                      |  |  |  |  |
|      | C                   | Jas                  | minum     | humile   |                 |                  |                      |  |  |  |  |
|      | (D)                 |                      |           |          |                 |                  |                      |  |  |  |  |

157. Pruning is an important practice for flower production in

(E)

- 162. Hardy tea clone, resistant to drought and wind, suitable for high elevation.
  - (A) Sundaram

(B) Golconda

(C) Jeyaram

Pandian

- (E) Answer not known
- 163. In rubber, 200% intensity of tapping is achieved through which one of the following system?

W

 $S_2d_1$ 

(B)  $S_2d_2$ 

(C)  $S_2d_3$ 

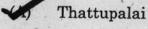
(D) S<sub>2</sub>d<sub>4</sub>

- (E) Answer not known
- 164. Intensive tapping prior to felling in rubber old trees is called as
  - (A) Heavy tapping
  - (B) Over tapping
  - (C) Final tapping
  - Slaughter tapping
  - (E) Answer not known
- 165. Under close planting system, coffee is planted at a spacing of

45

 $1 - 1.5 \text{ m} \times 1 - 1.5 \text{ m}$ 

- (B)  $0.5 1.0 \text{ m} \times 0.5 1.0 \text{ m}$
- (C)  $1.5 2.0 \text{ m} \times 1.5 2.0 \text{ m}$
- (D)  $2.0 \text{ m} 2.5 \text{ m} \times 2.0 \text{ m} 2.5 \text{ m}$
- (E) Answer not known
- 166. The method of tapping in young female inflorescence of palmyrah is known as



- (B) Aripanai
- (C) Kaivetty
- (D) Vallupanai
- (E) Answer not known

| 167. | One hectare of citronella yield how much quantity of essential oil during third year of eroppurg |                                      |          |         |                         |  |
|------|--|--------------------------------------|----------|---------|-------------------------|--|
|      | (A)  | 100 – 150 kg/ha                      |          |         |                         |  |
|      | P  | 250 – 300 kg/ha                      | •        |         |                         |  |
|      | (C)  | 400 – 500 kg/ha                      |          |         |                         |  |
|      | (D)  | 600 – 750 kg/ha                      |          |         |                         |  |
|      | (E)  | Answer not known                     |          |         |                         |  |
| 168. | The  | phyllanthus crop is ready for harves | st afte: | r —     | — months.               |  |
|      | (A)  | 1 month                              | (B)      | 2 month |                         |  |
|      | 100  | 3 month                              | (D)      | 5 month |                         |  |
|      | (E)  | Answer not known                     |          | i - / - |                         |  |
|      |  | The Proposition of the Section of    |          |         |                         |  |
| 169. | Tho  | crop duration of Isabgol is ———      | da       | ıvs     | and the second          |  |
| 103. | (A)  | 90 – 100 days                        |          |         | Comparison Delication   |  |
|      | (A)  | 110 – 130 days                       |          |         |                         |  |
|      | (C)  | 150 – 175 days                       |          |         | er i samma P. 1986. I . |  |
|      | (D)  | 180 – 200 days                       |          |         |                         |  |
|      | (E)  | Answer not known                     |          |         |                         |  |
|      | (11)   | This wor hot allow a                 |          |         |                         |  |
| 170. | Wha  | t is the native of geranium?         |          |         |                         |  |
|      | (A)  | Nigeria                              |          |         |                         |  |
|      | (B)  | Kenya                                | ,        |         |                         |  |
|      | 6  | South Africa                         |          |         |                         |  |
|      | (D)  | Angola                               |          |         |                         |  |
|      | (E)  | Answer not known                     |          |         |                         |  |
|      |  |                                      |          |         |                         |  |
| 171. | The  | medicinal property of Aswagandha     |          |         |                         |  |
|      | W  | Immuno-modulator                     |          |         |                         |  |
|      | (B)  | Aphrodisiac                          |          |         | 1                       |  |
|      | (C)  | Oral contraceptive                   |          |         |                         |  |
|      | (D)  | Anti-diarrhoea                       |          |         |                         |  |

(E)

Answer not known

172. Recommended and ideal storage temperature for tomato firm ripe

S

13 - 15°C

(B) 0-5°C

(C)  $7 - 9^{\circ}$ C

(D) 16-18°C

- (E) Answer not known
- 173. The correct order of decreasing ethylene production is

(A) Avocado → Sapota → Pineapple → Mango

(B) Sapota → Pineapple → Mango → Avocado

Sapota  $\rightarrow$  Avocado  $\rightarrow$  Mango  $\rightarrow$  Pineapple

- (D) Pineapple → Avocado → Sapota → Mango
- (E) Answer not known
- 174. The level of O<sub>2</sub> and CO<sub>2</sub> is controlled atmospheric storage to slow down the respiration rate in fruits and vegetables is

Reduced level of O2 and Increased level of CO2

- (B) Reduced level of O2 and CO2
- (C) Increased level of O2 and CO2
- (D) Increased level of O2 and reduced level of CO2
- (E) Answer not known
- 175. Biocide used for pulsing gladiolus flowers is
  - (A) 8 hydroxyquinoline sulphate
  - (B) Silver thiosulphate
  - (C) Silver nitrate

S- hydroxyquinoline citrate

- (E) Answer not known
- 176. The visual maturity index for grapes is
  - (A) Colour break 25 percent
  - (B) Pink colour

Bloom on surface

- (D) Dark bluish green
- (E) Answer not known

|      | (A)   | Fig                                      |                         |                     |
|------|-------|--|-------------------------|---------------------|
|      | 1     | Jack fruit                               |                         |                     |
|      | (C)   | Quince                                   |                         |                     |
|      | (D)   | Loquat                                   |                         |                     |
|      | (E)   | Answer not known                         |                         |                     |
|      |       |  |                         |                     |
|      |       |  |                         |                     |
| 178. | Spha  | agnum moss is a soil less media, able to | absorb —                | - time its weight o |
|      | water | er.                                      |                         |                     |
|      | (A)   | 5 –10                                    |                         |                     |
|      | 0     | 10 –20                                   |                         |                     |
|      | (C)   | 20 –30                                   | Project Project Control |                     |
|      | (D)   | 1-10                                     |                         |                     |
| ,    | (E)   | Answer not known                         |                         |                     |
|      | ( )   | •  |                         |                     |
|      |       |  |                         |                     |
| 179. | Iden  | ntify the short day plant                |                         |                     |
|      | 1     | Strawberry                               |                         |                     |
|      | (B)   | Mango                                    |                         |                     |
|      | (C)   | Tomato                                   |                         |                     |
|      | (D)   | Bhendi                                   |                         |                     |
|      | (E)   | Answer not known                         |                         |                     |
|      | (E)   | Allower not known                        |                         |                     |
|      |       |  |                         |                     |

177. Among the following, which fruit belongs to the fruit type 'Psorosis'

| 180. | Gibb  | erellin was discovered by ——— | — a | Japanese Scientist in 1926. |  |  |
|------|---|-------------------------------|-----|-----------------------------|--|--|
|      | (A)   | Charles Darwin                |     |                             |  |  |
|      | 10  | Kurusava                      |     |                             |  |  |
|      | (C)   | Liu                           |     |                             |  |  |
|      | (D)   | Carns                         |     |                             |  |  |
|      | (E)   | Answer not known              |     |                             |  |  |
| 181. | Vivipary germination of a seed while it is still attached to the mother plant is seen in                  |                               |     |                             |  |  |
|      | (4)   | Chow-Chow                     | (B) | Tomato                      |  |  |
|      | (C)   | Bhendi                        | (D) | Brinjal                     |  |  |
|      | (E)   | Answer not known              |     |                             |  |  |
|      |   |                               |     |                             |  |  |
| 182. | The biological process in which flower primordia are induced by exposure to a chilling period is known as |                               |     |                             |  |  |
|      | (A)   | Irradiation                   |     |                             |  |  |
|      | 9   | Vernalization                 |     |                             |  |  |
|      | (C)   | Sterilization                 |     |                             |  |  |
|      | (D)   | Cryopreservation              |     |                             |  |  |
|      | (E)   | Answer not known              |     |                             |  |  |
| 183. | In Guava, parthenocarpic fruits were obtained by using — at 1000 to 8000 ppm concentration.               |                               |     |                             |  |  |
|      | (A)   | Auxin                         | 0   | Gibberellic Acid            |  |  |
|      | (C)   | Ethylene                      | (D) | Cytokinin                   |  |  |
|      | (E)   | Answer not known              | •   |                             |  |  |
| 184. | Vivip   | ary is found in               |     |                             |  |  |
| 101. | (A)   | Tomato                        |     |                             |  |  |
|      | (B)   | Cabbage                       |     |                             |  |  |
|      | (C)   | Beans                         |     |                             |  |  |
|      | 6   | Chow Chow                     |     |                             |  |  |
|      | (E)   | Answer not known              |     |                             |  |  |

| 185. | In plants ————— is a condition in which the flowers are either staminate of Pistillate.    |   |  |  |  |  |  |
|------|--|---|--|--|--|--|--|
|      | (A)  | Bisexual flower   |  |  |  |  |  |
|      | (B)  | Perfect flower  |  |  |  |  |  |
|      | (C)  |   |  |  |  |  |  |
|      | (C)  | Cleistogamy Dicliny   |  |  |  |  |  |
|      | (E)  | Answer not known  |  |  |  |  |  |
|      | (E)  | Answer not known  |  |  |  |  |  |
| 186. | The g  | The growth regulator is used for sub culturing in Tissue culture is |  |  |  |  |  |
|      | (A)  | NAA (B) IBA   |  |  |  |  |  |
|      | (0)  | Cycocel (D) 2, 4-D  |  |  |  |  |  |
| 200  | (E)  | Answer not known  |  |  |  |  |  |
|      |  |   |  |  |  |  |  |
| 187. | The r  | The most commonly used medium for plant tissue culture is           |  |  |  |  |  |
|      | (A)  | Knudson solution-C medium   |  |  |  |  |  |
|      | (B)  | Vail and Vent medium  |  |  |  |  |  |
|      | 45   | Murashige and Skoog medium  |  |  |  |  |  |
|      | (D)  | Woody plant medium  |  |  |  |  |  |
|      | (E)  | E) Answer not known   |  |  |  |  |  |
|      |  |   |  |  |  |  |  |
| 188. | of a plant, grows horizontally along the ground, and forms a new plant at one of the nodes |   |  |  |  |  |  |
|      | (A)  | Stolons Runners   |  |  |  |  |  |
|      | (C)  | Offset (D) Suckers  |  |  |  |  |  |
|      | (E)  | Answer not known  |  |  |  |  |  |
| 189. | Whip   | p and tonque method of grafting is followed in                      |  |  |  |  |  |
|      | (A)  |   |  |  |  |  |  |
|      | (B)  | Sapota  |  |  |  |  |  |
|      | (C)  | Cashew  |  |  |  |  |  |
|      | 4  | Apple   |  |  |  |  |  |
|      | (E)  | Answer not known  |  |  |  |  |  |

| 190. | "i flo   | "i flora "   |                |   |  |  |
|------|--|--|----------------|---|--|--|
|      | W  | Indian Flowers and Ornar   | mental plants  | Welfare Association                     |  |  |
|      | (B)  | Indian Flora   |                |   |  |  |
|      | (C)  | (C) Indian flowers and ornamental plants Academy   |                |   |  |  |
|      | (D)  | International flowers rese   | arch academy   | ,                                       |  |  |
|      | (E)  | Answer not known   |                |   |  |  |
|      |  |  |                |   |  |  |
| 191. |  | structure is used fo   | r rooting of c | uttings.                                |  |  |
|      | (A)  | Net house  | <b>45</b> 7    | Mist Chamber                            |  |  |
|      | (C)  | Poly houses  | (D)            | Hot beds                                |  |  |
|      | (E)  | Answer not known   |                |   |  |  |
| 192. |  | Which of the following crop can be grown successfully as an intercrop in 10 years old mango orchard?                     |                |   |  |  |
| ¥ /  |  |  | (D)            | Main                                    |  |  |
|      | (A)  | Wheat  | (B)            | Maize                                   |  |  |
|      | (E)  | Answer not known   | (D)            | Sugarcane                               |  |  |
|      | (E)  | Answer not known   |                |   |  |  |
| 193. |  | ————— is the most widely followed method of irrigating vegetable crops.  |                |   |  |  |
| . 15 | (A)  | Check  |                | Flooding                                |  |  |
|      | (C)  | Bed  | (D)            | Furrow                                  |  |  |
|      | (E)  | Answer not known   |                |   |  |  |
| 104  | T.)  |  |                |   |  |  |
| 194. | Identify the wrong statement is Multiple cropping system of vegetable cultivation      |  |                |   |  |  |
|      | (A) Efficient-fertilizer management with better residual, direct and cumulative effect |  |                |   |  |  |
|      | (B)  | (B) Improved nitrogen economy when leguminous vegetables are included  |                |   |  |  |
|      | (C)  | (C) Higher nutritional potential   |                |   |  |  |
|      | D  | Highly risky, when crop failure occurs   |                |   |  |  |
|      | (E)  | Answer not known   |                |   |  |  |
| 195. | The r  | process of harvesting more n   | umber of cro   | as from the same niece of land during a |  |  |
|      |  | The process of harvesting more number of crops from the same piece of land during a specified period of time is known as |                |   |  |  |
|      | (A)  | Mono-cropping  |                | Multiple- cropping                      |  |  |
|      | (C)  | Relay cropping   | (D)            | Inter cropping                          |  |  |
|      | (E)  | Answer not known   | (2)            |   |  |  |
|      | (-/  |  |                |   |  |  |

| 196. | Identify the correct statement                                    |  |  |  |  |  |
|------|---|--|--|--|--|--|
|      | (A)   | Soil colour determined on dry surfaces of freshly broken soil                  |  |  |  |  |
|      | (B)   | Coarse textured soils are darker in colour                                     |  |  |  |  |
|      | (C)   | 6  |  |  |  |  |
|      | 45  | Black colour of soils are due to the presence of organic matter                |  |  |  |  |
|      | (E)   | Answer not known   |  |  |  |  |
| 197. | Identify the incorrect statement                                  |  |  |  |  |  |
|      | (A)   | Humus compounds are formed by decomposition and synthesis                      |  |  |  |  |
|      | 0   | Humus is less significant to soils and plant                                   |  |  |  |  |
|      | (C)   | Plant residues are broken down by soil microbes including lignin               |  |  |  |  |
|      | (D)   | Humus is a complex and rather resistant mixture                                |  |  |  |  |
|      | (E)   | Answer not known   |  |  |  |  |
| 100  | The   | system of combination of agricultural crops along with fruit trees is known as |  |  |  |  |
| 198. | (A)   | Horti-Silvi cultural system  |  |  |  |  |
|      | (A)   | Agri-Horti system  |  |  |  |  |
| 1    | (C)   | Horti-pastoral system  |  |  |  |  |
|      | (D)   | Agri-pastoral system   |  |  |  |  |
|      | (E)   | Answer not known   |  |  |  |  |
|      |   |  |  |  |  |  |
| 199. |   | neapple which of the following planting materials bear fruits early            |  |  |  |  |
|      | (A)   | Slips Suckers  |  |  |  |  |
|      | (C)<br>(E)  | Seeds (D) Crowns Answer not known  |  |  |  |  |
|      | (11)  | THIS WOLLDON MICHAEL   |  |  |  |  |
| 200. | element is highly required by banana as compared to other nutrier |  |  |  |  |  |
|      |   | ents (D) Phombonus   |  |  |  |  |
|      | (A)   | Nitrogen (B) Phosphorus Potassium (D) Calcium                                  |  |  |  |  |
| 7    | 5   |  |  |  |  |  |
|      | (E)   | Answer not known   |  |  |  |  |
|      |   |  |  |  |  |  |



HLOR/2021 48