

Sl. No. :

HOUUG/19

Register
Number

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2019
HORTICULTURE
(Degree Standard)

Time Allowed : 3 Hours]

[Maximum Marks : 300

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

IMPORTANT INSTRUCTIONS

1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. **In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.**
3. Answer all questions. All 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 mark the answers.
6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
7. Each question comprises *four* responses (A), (B), (C) and (D). You are to select **ONLY ONE** correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
8. In the Answer Sheet there are **four** circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen **ONLY ONE** circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. *e.g.* If for any item, (B) is the correct answer, you have to mark as follows :
(A) ● (C) (D)
9. 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 Hall during the time of examination. After the examination is concluded, 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.
10. **Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.**
11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SPACE FOR ROUGH WORK

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1. Sciophytes refers to
(A) Plants which grow in open sunny situation
 (B) Plants which grow in Shade
(C) Plants which grow in partial sunny situation
(D) Plants which grow in partial shade
2. Among the following which fruit belongs to the fruit type 'Pome'
 (A) Pear (B) Walnut
(C) Guava (D) Rambutan
3. The processing requirement of raw cashew nut in India is _____ lakh tonnes per annum.
(A) 8-10 (B) 11-12
(C) 13-14 (D) 15-16
4. Which vegetable share is maximum in the export trade?
(A) Potato (B) Tomato
 (C) Onion (D) Peas
5. World's largest producer of Aonla?
 (A) India (B) Brazil
(C) China (D) Srilanka
6. India is the largest producer and exporter of
(A) Fruits (B) Vegetables
(C) Flowers (D) Spices
7. Horticultural crops contributes _____ percent of GDP from agriculture.
(A) 20 (B) 40
 (C) 30 (D) 15

15. The plant growth regulator _____ induces transport of soluble nitrogen from intact leaves to localise areas of other leaves.
- (A) Gibberellic acid (B) Kinetin
(C) Ethylene (D) Abscisic acid
16. _____ is the plant growth regulator used for breaking bud dormancy in potato.
- (A) IBA (B) GA₃
(C) Ethylene (D) Kinetin
17. Application of _____ at the tapping panel increases the flow of latex in rubber.
- (A) Ethrel (B) GA₃
(C) Kinetin (D) ABA
18. Plant initiate flowers only when the day length is below 12 hours is called as
- (A) Long day (B) Day neutral
 (C) Short day (D) Medium day
19. Formation of a layer of tissue at the base of the organ which causes separation of a particular organ from the source of attachment is termed as
- (A) Dominance (B) Hyponasty
 (C) Abscission (D) Seismonasty
20. The preharvest drop of pome fruits can be reduced by spraying the growth regulator
- (A) NAA (B) GA
(C) ABA (D) MH
21. If a Parthenocarpic fruit develops even without the stimulus from the pollination, then this phenomenon is referred as
- (A) Facultative apomixis (B) Vegetative parthenocarpy
(C) Recurrent apomixis (D) Non Recurrent apomixis

22. Identifying the characteristics of disease causing agents is referred to as

- (A) Physiology (B) Etiology
(C) Virology (D) Serology

23. Match the following :

- | | |
|-------------|--------------|
| (a) Corm | 1. Onion |
| (b) Bulb | 2. Gladiolus |
| (c) Rhizome | 3. Turmeric |
| (d) Tuber | 4. Potato |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) <input checked="" type="checkbox"/> | 2 | 1 | 3 | 4 |
| (B) <input type="checkbox"/> | 3 | 4 | 2 | 1 |
| (C) <input type="checkbox"/> | 4 | 1 | 2 | 3 |
| (D) <input type="checkbox"/> | 2 | 1 | 4 | 3 |

24. Rooting of cuttings is induced by

- (1) High auxin low cytokinin
(2) Low auxin low cytokinin
(3) Low auxin High cytokinin
(4) Low auxin High Gibberellins
(A) (1) is correct
(B) Both (2) and (4) are correct
(C) (3) is correct
(D) (4) is correct

25. Age of root stock in epicotyl grafting is

- (A) 1-1½ years old (B) 120-150 days old
(C) 8-15 days old (D) 2-3 years old

26. Which of the following crop is propagated by tuberous roots?
- (A) Strawberry (B) Blackberry
 (C) Dahlia (D) Dioscorea

27. In which crop, root production of stem cutting can be promoted by wounding?
- (A) Bougainvillea (B) Magnolia
 (C) Crotons (D) Moringa

28. Match the following

- | | |
|-------------------|-------------|
| (a) Calliandra | 1. Cuttings |
| (b) Hamelia | 2. Layering |
| (c) Ixora | 3. Suebers |
| (d) Chrysanthemum | 4. Seed |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 1 | 3 | 2 | 4 |
| (B) | 3 | 1 | 2 | 4 |
| (C) | 4 | 1 | 3 | 2 |
| <input checked="" type="checkbox"/> (D) | 4 | 1 | 2 | 3 |

29. Leaf searching in Mango is due to

- (A) N deficiency (B) P deficiency
 (C) I_o deficiency (D) Cl₂ deficiency

30. 'D' leaf is a best indicator of nutrient status of

- (A) Pine-apple (B) Apple
 (C) Mango (D) Banana

31. Preharvest fruit drop in apple can be prevented by spraying
 (A) NAA @ 10 PPM (B) NAA @ 20 PPM
(C) NAA @ 30 PPM (D) NAA @ 40 PPM
32. In Ber, Fruit set can be increased by the application of
 (A) GA₃ @ 20 PPM (B) GA₃ @ 100 PPM
(C) GA₃ @ 250 PPM (D) GA₃ @ 40 PPM
33. Splitting of fruits in oranges and lemons can be controlled by the application of
(A) N (B) P
 (C) K (D) Ca
34. Hard lump in banana cultivar Rasthali can be overcome by application of
 (A) 2, 4-D @ 1000 PPM
(B) 2, 4-D @ 1500 PPM
(C) 2, 4-D @ 2000 PPM
(D) 2, 4-D @ 2500 PPM
35. 'Hen' and 'Chicken', a disorder observed in
(A) Mango (B) Avocada
 (C) Grapes (D) Litchi
36. Fruit cracking in Pomegranate can be controlled by spraying
 (A) Borax @ 1.0% (B) Borax @ 1.5%
(C) Borax @ 2.0% (D) Borax @ 2.5%
37. _____ is the physiological disorder in apple characterised by the development of brown spots (or) streaks beneath the skin.
(A) Apple scab (B) Bitten pit
(C) Internal rot (D) Russet

38. Which of the following is the paper thin seeded variety of mango?
(A) Langra (B) Arka Aruna
 (C) Sindhu (D) Amrapali
39. Which of the following is not the physiological disorder of mango?
 (A) Sooty mould
(B) Black tip
(C) Spongy tissue
(D) Floral malformation
40. The origin of banana is
(A) Amazon
(B) South Africa
(C) Indo-China region
 (D) Indo-Malayan region
41. Hard lump is a common physiological disorder in which variety of banana?
(A) Matti (B) Nendran
(C) Monthan (D) Rasthali
42. Which of the following is stone fruit?
(A) Apple (B) Pear
 (C) Peach (D) Quince
43. Which of the following is the commercial propagation technique of sapota?
 (A) Inarch grafting
(B) Stone grafting
(C) Batch budding
(D) Veneer grafting

44. Early Grano and Brown Spanish are _____ coloured varieties of onion.
- (A) Red colour (B) Pink colour
(C) White colour (D) Yellow colour
45. Early blight of potato is
- (A) Air borne (B) Soil borne
(C) Both (D) Nematodes
46. The TPS variety of potato is
- (A) JH 222 (B) HPS 1/113
(C) PJ 376 (D) All the above
47. Suitable temperature for tuberization in potato is
- (A) 12° - 14°C (B) 22° - 24°C
 (C) 18° - 20°C (D) 28° - 30°C
48. Which vegetable crop is day neutral?
- (A) Tomato (B) Radish
(C) Potato (D) Spinach
49. Leaf curl resistant variety in Chilli
- (A) Pusa Sadabahar (B) Arka Mohini
(C) Co₁ (D) K₁
50. Bangalore Rose is a variety of
- (A) Rose (B) Onion
(C) Chilli (D) Tomato

51. Carrot producing _____ type of inflorescence.
 (A) Compound umbel (B) Recymose type
(C) Cymose type (D) All the above
52. _____ is the vector of YVMV disease in bhendi.
(A) Aptrids (B) Wasp
(C) Bees (D) White fly
53. The shelling percentage of pea ranges from
 (A) 35 – 50% (B) 40 – 60%
(C) 25 – 30% (D) 80 – 90%
54. True Garlic odor is due to
 (A) Diallyl di-sulphide
(B) Alliicin
(C) Diallyl trisulphide
(D) Alliin
55. Crimson Globe is a variety of
(A) Horse radish (B) Turnip
 (C) Beet root (D) Carrot
56. The average seed yield in carrot
 (A) 500 – 600 kgha%
(B) 100 – 300 kgha %
(C) 50 – 100 kgha %
(D) 400 – 500 kgha %
57. Brown heart in radish is due to _____ deficiency.
(A) Mg (B) Fe
(C) S (D) BO

58. Indicate the incorrect statement with regard to edge
- (A) edges are plants which are employed in gardens for dividing borders
 - (B) edge plants are fall growing
 - (C) handsome foliage
 - (D) amenable for regular trimming
59. Which of the following statement is incorrect for Adenium Obesum
- (A) It is a succulent plant and the stem is swollen at the base
 - (B) Flowers are funnel shaped
 - (C) Ideal for rockery
 - (D) Fast growing shrub propagated by root cuttings
60. Among the following, Point out the incorrect statement
- (A) Palms can be propagated from seeds or division of clumps
 - (B) Caryota Ureus produces long drooping flower spicess
 - (C) Livistonia decipiens fan shaped leaves with stout thorus
 - (D) Rhapis excelsa produce needle shaped leaves
61. Which of the following is queen of flowering trees?
- (A) Bauhinia purpurea
 - (B) Cassia fistula
 - (C) Amherstia nobilis
 - (D) Delonix regia
62. _____ is the Jasmine species from which concrete extraction is done on a commercial scale.
- (A) Jasminum grandiflorum
 - (B) Jasminum auriculatum
 - (C) Jasminum sambac
 - (D) Jasminum multiflorum

63. Swarna Rekha is a mutant variety of tuberose released from

- (A) IIHR Bangalore
- (B) NBRI Lucknow
- (C) TNAU
- (D) IARI

64. Which is the largest genus in orchid family?

- (A) Dendrobium
- (B) Cymbidium
- (C) Cattleya
- (D) Epidendrum

65. Which of the following statement is incorrect with regard to carnation?

- (A) Carnations are generally grown under open conditions
- (B) Carnations are lubaceous perennials
- (C) Training is a important and continuous operation in growing carnations
- (D) Carnations are sensitive to ethylene

66. Match the following :

- | | |
|-------------|--------------|
| (a) Bulb | 1. Crocus |
| (b) Corm | 2. Iris |
| (c) Tuber | 3. Narcissus |
| (d) Rhizome | 4. Dahlia |

- | | (a) | (b) | (c) | (d) |
|-----|-----|-----|-----|-----|
| (A) | 1 | 4 | 3 | 2 |
| (B) | 4 | 2 | 1 | 3 |
| (C) | 3 | 2 | 4 | 1 |

67. In Cocoa, the common micronutrient deficiency encountered in South India is due to
 (A) Zinc (B) Boron
(C) Manganese (D) Molybdenum
68. The commercial source of natural rubber Hevea Brasiliensis belongs to the family
(A) Rubiaceae (B) Camelliaceae
 (C) Euphorbiaceae (D) Malvaceae
69. For grafting of Nutmeg, the scion should be collected from
(A) Orthotropic shoots from male tree of nutmeg
(B) Hanging shoots from male tree of nutmeg
(C) Orthotropic shoots from M. malabarica
 (D) Orthotropic shoots from female tree of nutmeg
70. Vanilla belongs to the family
(A) Piperaceae (B) Orchidaceae
(C) Fabaceae (D) Apiaceae
71. Turmeric variety released from TNAU is
 (A) BSR.2 (B) MDU.2
(C) PKM.2 (D) KKM.2
72. In Tamil Nadu, coriander is commercially grown as rainfed crop in _____ soil.
(A) Red loam (B) Sandy loam
 (C) Black cotton (D) Lateritic
73. _____ is the principal pollinating agent and it increases fruit set considerably in Cardamom.
(A) Conogethes punctiferalis (B) Apis Ceranaindica
(C) Planococcus lilacinus (D) Toxoptera aurantii

74. Malabar type of cardamom can be distinguished based on
- (A) Prostrate panicle, round or oblong capsule
 - (B) Erect panicle, elongated, black, capsule
 - (C) Semi erect panicle, round or oblong capsule
 - (D) Erect panicle, bold, elongated capsule
75. Optimum weight of planting unit of rhizome in turmeric is
- (A) 10 – 20 g
 - (B) 35 – 45 g
 - (C) 60 – 70 g
 - (D) 80 – 90 g
76. 'IISR Vijetha', a variety of cardamom is field tolerant to
- (A) Thrips
 - (B) Katte
 - (C) Scale insects
 - (D) Wilt
77. Piper Colubrinum a wild species of piper is resistant to _____ disease.
- (A) Foot rot
 - (B) Scale insect
 - (C) Pollu beetle
 - (D) Leaf gall thrips
78. The scientific name of Saigon Cassia is
- (A) Cinnamomum Cassia
 - (B) C. Burmanii
 - (C) C. Loureirii
 - (D) C. Tamala
79. The latest method of propagation in Nutmeg is _____ for production of orthotropic plants.
- (A) Green chip budding
 - (B) Wedge grafting
 - (C) Air layering
 - (D) Seedlings

80. Match the following :

- | | |
|-----------------|----------------|
| (a) Glory Lilly | 1. Withanine |
| (b) Aswagandha | 2. Phyllanthin |
| (c) Coleus | 3. Colchicine |
| (d) Phyllanthus | 4. Forskolin |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 2 | 1 | 4 | 3 |
| <input checked="" type="checkbox"/> (B) | 3 | 1 | 4 | 2 |
| (C) | 4 | 1 | 3 | 2 |
| (D) | 3 | 1 | 2 | 4 |

81. Match the following :

- | | |
|-----------------------------|----------------------|
| (a) Pod borer | 1. Medicinal Solanum |
| (b) Leaf eating caterpillar | 2. Opium poppy |
| (c) Aphids | 3. Coleus |
| (d) Fruit borer | 4. Senna |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 2 | 3 | 4 | 1 |
| (C) | 3 | 2 | 1 | 4 |
| <input checked="" type="checkbox"/> (D) | 4 | 3 | 2 | 1 |

82. The concentration of stevioside in the leaves increases when the plants grown under _____ condition.

- | | |
|-----------------|--|
| (A) Short day | <input checked="" type="checkbox"/> (B) Long day |
| (C) Day neutral | (D) Dark |

83. The growing habit of isabgol is
- (A) Shrub (B) Annual herb
- (C) Bush (D) Tree
84. The major disease affected the phyllanthus crop is
- (A) Powdery mildew (B) Downy mildew
- (C) Root rot (D) Leaf spot
85. The stevia has originated from
- (A) Brazil
- (B) Japan
- (C) Korea
- (D) North Eastern Paraguay
86. The seed rate of isabgol is _____ kg/ha.
- (A) 1 – 3 kg/ha (B) 4 – 8 kg/ha
- (C) 9 – 11 kg/ha (D) 11 – 13 kg/ha
87. The temperature requirement during the reproductive period of opium poppy is
- (A) 10 – 15° C (B) 20 – 25° C
- (C) 30 – 35° C (D) 40 – 45° C
88. Pragathi is a variety of _____ crop.
- (A) Lemon grass (B) Vetiver
- (C) Davana (D) Mint

89. Which of the following about maturity index is correctly matched?

- (A) Jack – Aroma
- (B) Watermelon – Netting
- (C) Brinjal – Ease of snapping
- (D) Muskmelon – Tapping

90. Choose the temperature at which bacteria found on fruits could get destroyed

- (A) 112°F
- (B) 112°C
- (C) 121°F
- (D) 212°F

91. Which of the following is incorrectly paired?

- (A) Preserve – Banana
- (B) Squash – Mango
- (C) Sauce – Tomato
- (D) Jelly – Guava

92. The extent of value addition of horticultural products in India is

- (A) 2%
- (B) 5%
- (C) 7%
- (D) 9%

93. Which of the following helps to maintain green colour in legume pods?

- (A) Indole Acetic Acid
- (B) Indole Butyric Acid
- (C) Gibberellic Acid
- (D) Iso propyl phenyl carbamate

94. Which one of the following is not a physical method of maturity assessment?
- (A) Size (B) Surface texture
(C) Shape (D) TSS/acid ratio
95. Pick out the wrong statement.
- (A) Fruits rich in pectin and acid are suitable for Jelly making
 (B) Unripe green fruits are used for Jelly making
(C) Low pectin affects the consistency of Jelly
(D) Guava is suitable for Jelly preparation
96. The moisture level of dehydrated fruits and vegetables is
- (A) below 12% (B) below 5%
(C) below 7% (D) below 10%
97. Which of the following statement is correct?
- (A) Degreening is best done at 27°C with 85 percent relative humidity
(B) Degreening is best done at 37°C with 85 percent relative humidity
(C) Degreening is best done at 37°C with 95 percent relative humidity
(D) Degreening is best done at 27°C with 95 percent relative humidity
98. Which of the following statement is wrong?
- (A) Ripening leads to softening of fruit
(B) Ripening leads to colour change
(C) Ripening results in increased sugar content
 (D) Ripening increases phenol content

99. There is a definite cyclic growth pattern in deciduous plants coinciding with a particular season viz
- (i) Shedding of leaves
 - (ii) Rest Period
 - (iii) New Growth of flushes and flowers
 - (iv) Fruit set and maturity
- The summer season coincides with
- (A) (i)
 - (B) (ii)
 - (C) (iii)
 - (D) (iv)
100. The soil pH requirement for Tea crop is
- (A) 7.0 – 8.0
 - (B) 6.0 – 7.5
 - (C) 7.5 – 8.5
 - (D) 4.5 – 5.0
101. Organic soils contain _____ % or more of Organic matter.
- (A) 10
 - (B) 15
 - (C) 20
 - (D) 30
102. Mango, Sapota, sweet oranges and Guava are largely cultivated in _____ zone.
- (A) North central Subtropical Zone
 - (B) Temperate Northern zone
 - (C) North western arid Zone
 - (D) Southern hilly zone
103. The Yield of the tea is more when it is grown at
- (A) Higher elevation
 - (B) Lower elevation
 - (C) Middle elevation
 - (D) Plains
104. 'Hydroponics' technique was first developed on commercial scale by
- (A) De. Condole
 - (B) J.D. Hooker
 - (C) W.F. Greig
 - (D) Hugo De Vries

105. The scientific horticulture consists of the following divisions. Among them, which division has impact on environment aesthetically and functionally

- (A) Fruits (B) Flowers
(C) Spices (D) Plantations

106. There is a definite cyclic growth pattern in deciduous plants coinciding with a particular season viz

- (i) Shedding of leaves
(ii) Rest period
(iii) New growth of flush and flowers
(iv) Fruit set and maturity

The Autumn season coincides with

- (A) (i) (B) (ii)
 (C) (iii) (D) (iv)

107. A disorder described as 'Choking' in banana is due to

- (A) High temperature (40°C) during growth period
 (B) Low temperature (10°C) during growth period
(C) High moisture stress during growth period
(D) Water stagnation during growth period

108. Indicate the humid zone fruit among the following

- (A) Apple (B) Ber
(C) Guava (D) Litchi

109. Condiments refers to

- (A) the food adjuncts to add aroma and flavour
(B) the food to add nutritive value
 (C) the food adjuncts to add taste only
(D) the food to add minerals and vitamins

110. The response of a plant to the relative length of day and night is called as
- (A) Photosynthesis (B) Phytochrome
 (C) Photoperiodism (D) Photo respiration
111. Breeding dormancy of hard seed coats seed by mechanical (or) chemical treatments is called as
- (A) Stratification (B) Scarification
(C) Sterilization (D) Vernalization
112. The transfer of hormones from producing part to other parts takes place through
- (A) Xylem (B) Pith
 (C) Phloem (D) Vascular Bundles
113. Acceleration of the ability of flower by a chilling treatment is called as
- (A) Vernalization (B) Devernalization
(C) Sterilization (D) Accumulation
114. _____ are synthetic compounds which reduce the growth of the plants.
- (A) Growth stimulant (B) Growth promoters
 (C) Growth retardants (D) Growth enhancers
115. Lemon fruits can be degraded artificially by spraying _____ at pre harvest stage.
- (A) Ethrel (B) Gibberallic Acid
(C) Absciscic acid (D) Cytokinin
116. The transfer of pollen grains from anther to the stigmatic surface is called as
- (A) Fertilization (B) Pollination
(C) Transformation (D) Self incompatibility

117. In polyembryonic varieties of mango, adventitious embryos arise from
- (A) Cells of the leaves (B) Cells of the stems
 (C) Cells of the nucleus (D) Cells of the roots
118. Marcottage refers to
- (A) Serpentine layering (B) Compound layering
 (C) Stooling (D) Air layering
119. Auxin movement in plant is
- (A) acro petal (B) basipetal
(C) transverse (D) transpiration
120. The commercial hydroponics technique was developed by
- (A) H.F. Habarlet (B) K.J. Kester
 (C) W.F. Greicke (D) J.E. Greek
121. Thermo dormancy can be overcome by application of
- (A) ABA (B) Cytokinins
(C) Retardants (D) Auxins
122. A unique geophyte structure in which the base of the stem axis is swollen, has nodes and inter nodes and is enclosed by dry membranous leaves is called as
- (A) Corm (B) Bulb
(C) Rhizome (D) Stolon
123. Suberization is observed in
- (A) Tapioca (B) Colocasia
 (C) Potato (D) Elephant foot yam

124. Pre germination techniques in seeds followed for increasing
(A) Purity (B) Viability
 (C) Germination (D) Storability
125. The grafting of a new cultivar onto established trees in the orchard is called as
(A) Bridge grafting (B) Top working
(C) Disease indexing (D) Inarching
126. Genetic dwarfs in plants could be overcome by application of
(A) Ethylene (B) Auxin
 (C) Gibberellins (D) Abscisic acid
127. Perlite is a _____ material used as media for propagation of plants.
(A) Micaceous (B) Siliceous
(C) Calciferous (D) Aluminium based
128. An embryonic shoot or flower composed largely by meristematic tissue and protected by modified leaf scales is known as
(A) Cambial tissue (B) Bud
(C) Leaf (D) Root
129. Which of the following is incorrectly paired?
(A) Rubus–Recurrent apomixis
 (B) Malus–Non-recurrent apomixis
(C) Citrus–Nucellar embryony
(D) Dioscorea–Vegetative apomixis
130. Which of the following crop is propagated through leaf bud cuttings?
 (A) Tea (B) Jasmine
(C) Duranta (D) Chrysanthemum

131. _____ is a suitable intercrop for arecanut upto 10 months.
- (A) Pine-apple (B) Mango
(C) Litchi (D) Tapioca
132. Ammonium nitrate contains
- (A) 33% N (B) 43% N
(C) 46% N (D) 23% N
133. The phosphoric acid in bone meal
- (A) 18% (B) 23%
(C) 33% (D) 38%
134. _____ is a method of irrigation generally followed in Young orchards, light sandy and alkaline soils.
- (A) Check (B) Flooding
(C) Bed (D) Basins
135. The method of growing a single crop over a period of years is known as
- (A) Inter cropping (B) Sequential cropping
 (C) Mono-cropping (D) Mixed cropping
136. Orchard cultivation in which the vegetation is cut frequently and cut material is allowed to remain on the ground is known as
- (A) Sod mulch (B) Bio mulch
(C) Eco mulch (D) Organic mulch
137. Seedlessness in grapes can be induced by the application of _____ in Anab-e-Shahi.
- (A) GA₃ @ 50 PPM (B) GA₃ @ 100 PPM
(C) GA₃ @ 150 PPM (D) GA₃ @ 200 PPM

138. The practice of smoking the trees to induce off-season crops in mango is
- (A) Smudging (B) Bending
(C) Ringing (D) Notching
139. Which one of the following orchard system is most efficient?
- (A) Meadow orcharding
(B) Standard plantings
 (C) High density orcharding
(D) Dwarf pyramid
140. Multi storeyed cropping is followed in
- (A) Jammu and Kashmir
(B) Bihar and Madhya Pradesh
(C) Rajasthan and Karnataka
 (D) Karnataka and Kerala
141. The plant suitable for making live fencing
- (A) prosophes (B) colotrophes
(C) Madras thorn (D) Duranta
142. Which of the following growth regulator used for degreening of orange fruit?
- (A) GA-50 ppm
 (B) Ethrel 2000 to 4000 ppm
(C) SADH - 250 ppm
(D) Phosphon-D 2000 ppm
143. Grapes are commercially propagated by
- (A) Root cuttings
 (B) Hardwood cuttings
(C) Grafting
(D) Budding

144. Match the banana varieties with their ploidy level :

- | | |
|---------------------|--------|
| (a) Dwarf cavendish | 1. ABB |
| (b) Monthan | 2. AAB |
| (c) Poovan | 3. AB |
| (d) Kunnan | 4. AAA |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 3 | 2 | 1 | 4 |
| <input checked="" type="checkbox"/> (B) | 4 | 1 | 2 | 3 |
| (C) | 1 | 4 | 3 | 2 |
| (D) | 2 | 3 | 4 | 1 |

145. Acid lime is commercially propagated by

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> (A) Cuttings | <input type="checkbox"/> (B) Grafting |
| <input checked="" type="checkbox"/> (C) Seeds | <input type="checkbox"/> (D) Budding |

146. Largest tapioca producing state in India

- | | |
|--|--|
| <input type="checkbox"/> (A) Tamil Nadu | <input type="checkbox"/> (B) Bihar |
| <input type="checkbox"/> (C) Andra Pradesh | <input checked="" type="checkbox"/> (D) Kerala |

147. The seed rate for watermelon

- | | |
|--|--|
| <input type="checkbox"/> (A) 8-10 Kgha ⁻¹ | <input checked="" type="checkbox"/> (B) 3-5 Kgha ⁻¹ |
| <input type="checkbox"/> (C) 6-8 Kgha ⁻¹ | <input type="checkbox"/> (D) 10-12 Kgha ⁻¹ |

148. Chromosome number of musk melon

- | | |
|---|--|
| <input type="checkbox"/> (A) $2n = 48$ | <input type="checkbox"/> (B) $2n = 34$ |
| <input checked="" type="checkbox"/> (C) $2n = 24$ | <input type="checkbox"/> (D) $2n = 18$ |

149. Chromosome number of cluster been
- (A) $2n = 130$ (B) $2n = 100$
 (C) $2n = 14$ (D) $2n = 24$
150. Cluster been seed contain gum like musilaginous substances called
- (A) Galactomannon (B) Gell
(C) Fluid (D) Tarin
151. Largest tomato production state in India
- (A) Tamil Nadu (B) Odisha
(C) Maharashtra (D) Karnataka
152. Which of the following is native of Radish?
- (A) South East Asia (B) Africa
(C) Peru (D) Canada
153. Seed germination in pea is enhanced by _____ treatment.
- (A) IBA (B) GA
(C) Ethylene (D) MH
154. Little leaf of brinjal resistant variety
- (A) Arka sheel (B) Arka Nidhi
(C) PLR-1 (D) Co-3
155. Bitter principle in Tapioca is due to
- (A) Momardicin
 (B) Cyanogenic glucoside
(C) Sulphur oxidation
(D) Low starch content

156. Browning is a physiological disorder in cauliflower due to deficiency of

- (A) Mo (B) Ca
 (C) Bo (D) Mn

157. Among the following find out the incorrect statement with regard to the qualities of indoor plants

- (A) compact in growth habit
(B) evergreen in nature
 (C) no need to withstand shade
(D) attractive by virtue of their shape or colour

158. Areca Lutescens is a

- (A) Clumping palm
(B) Solitary palm
(C) Branching palm
(D) Trunkless palm

159. Which of the following pair is incorrect?

- (A) Bryant park – Ooty
(B) Sim's park – Coonoor
(C) Lalbagh – Bangalore
(D) Buddha Jayanthipark – New Delhi

160. Which of the following statement is not correct with regard to lawn

- (A) Lawn is not established through seed sowing
(B) Dibbling
(C) Turfing
(D) Turf plastering

161. The ideal pH for establishing a good lawn is
- (A) 5.5 to 7.0 (B) 6.5 to 8.0
(C) 8.0 to 8.5 (D) 8.25 to 8.5
162. Climber suitable for screening is
- (A) Vernonia elaeagnifolia
(B) Monstera deliciosa
(C) Aristolochia
(D) Allamanda
163. Botanical name for Rangoon creeper is
- (A) Ficus repens
(B) Adenocalymma alliaceum
 (C) Quisqualis indica
(D) Allamanda cathartica
164. Which of the following is incorrectly matched?
- (A) Balance – Visual equilibrium
(B) Harmony – Pleasing effect
 (C) Rhythm – Divisional lines
(D) Proportion – Relative composition of the different components
165. Botanical name for Spanish Jasmine is
- (A) J. Sambac
 (B) Jasminum grandiflorum
(C) J. multiflorum
(D) Jasminum nitidum

166. Pick out the common name of Bamboo Palm

- (A) Chamaedorea seifrizii
- (B) Oreodoxa regia
- (C) Livistona chinensis
- (D) Chrysalidocarpus Lutescens

167. Which of the following statement on Moghul garden is incorrect

- (A) Charbagh design is its basic feature
- (B) They did not follow symmetry
- (C) Running water is an essential feature
- (D) They pleasure gardens of Royal People

168. The products of the plants which are used as food adjuncts and add taste only is called

- (A) Spices
- (B) Medicinal plants
- (C) Aromatic plants
- (D) Condiments

169. Which of the following species is known as cambod type tea?

- (A) Camellia assamica subspecies losiocalyx
- (B) Camellia sinensis
- (C) Camellia assamica
- (D) None of the above

170. The suitable elevation for Arabica coffee is

- (A) 1000 – 1500 m above MSL
- (B) 500 – 1000 m above MSL
- (C) 1500 – 2500 m above MSL
- (D) Above 3000 m above MSL

171. S₂d₃ – Half spiral, tapping at every 3 day for 6 months and rest for 3 months rents in _____ % tapping intensity.

(A) 100

(B) 67

(C) 200

(D) 75

172. Indian rubber is

(A) Manihob glaziovii

(B) Ficus elastica

(C) Castilla elastica

(D) Hevea braziliums

173. Central coffee Research Institute is located at

(A) Kozhikode

(B) Balahanur

(C) Pultur

(D) Hirehalli

174. Tea belongs to the family

(A) Rubiaceae

(B) Euphorbiaceae

(C) Malvaceae

(D) Camelliaceae

175. The vanillin content of the properly cured beans of vanilla is

(A) 2.5 percent

(B) 3.5 percent

(C) 4.0 percent

(D) 4.5 percent

176. Which type of cumin yields high

(A) Tall

(B) Dwarf

(C) Pink flowered

(D) White flowered

177. The spice of commerce in clove is

- (A) Fully opened flowers (B) Leaves
 (C) Unopened flower buds (D) Fruits

178. The Black pepper cuttings are collected from _____ shoots for commercial propagation.

- (A) Plagiotropes (B) Top shoots
 (C) Geotropes (D) Runner shoots

179. The commercially cultivated species of curcuma is

- (A) Curcuma longa (B) C. Aromatica
(C) C. Angustifolia (D) C. Amada

180. Sweet flag is a _____ herb.

- (A) Mesophyte (B) Xerophyte
 (C) Semi-aquatic (D) Aquatic

181. The recommended spacing for planting of Stevia is _____ cm.

- (A) 15 × 15 cm (B) 15 × 30 cm
 (C) 30 × 45 cm (D) 45 × 22 cm

182. The NPK requirement for coleus is _____ kg/ha.

- (A) 20 : 20 : 20 kg/ha (B) 40 : 60 : 50 kg/ha
(C) 60 : 80 : 50 kg/ha (D) 60 : 80 : 100 kg/ha

183. Pick the odd one out of medicinal plant

(A) Aswagandha

(B) Periwinkle

(C) Aloe

(D) Davana

184. The economic part of sweet flag is

(A) Stem

(B) Leaves

(C) Fruit

(D) Under ground rhizome

185. Native of Senna is

(A) India

(B) Canada

(C) South Africa

(D) USA

186. The botanical name of Aswagandha is

(A) Andrographis Paniculata

(B) Dioscorea Floribunda

(C) Chlorophytum Borivilianum

(D) Withania Somnifera

187. Coleus belonging to the family

(A) Apiaceae

(B) Fabaceae

(C) Lamiaceae

(D) Solanaceae

188. Glucomannan is a polysaccharide present in

(A) Psyllium seed

(B) Senna pods

(C) Aloevera gel

(D) Periwinkle leaves

189. Match the following :

- | | |
|-----------------|----------------------|
| (a) CIM-Jeevan | 1. Aswagandha |
| (b) Poshita | 2. Phyllanthus |
| (c) Arka mahima | 3. Opium poppy |
| (d) Talia | 4. Medicinal solanum |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 4 | 3 | 2 | 1 |
| <input checked="" type="checkbox"/> (B) | 2 | 1 | 4 | 3 |
| (C) | 2 | 1 | 3 | 4 |
| (D) | 1 | 2 | 3 | 4 |

190. The recovery of oil about _____ percent from fresh lemon grass.

- | | |
|--|-----------------|
| (A) 0.1 – 0.2% | (B) 0.2 – 0.25% |
| <input checked="" type="checkbox"/> (C) 0.3 – 0.5% | (D) 0.6 – 0.7% |

191. Which of the following is not a germicide?

- | | |
|-----------|--|
| (A) 8-HQS | <input checked="" type="checkbox"/> (B) SADH |
| (C) TBZ | (D) 8-HQC |

192. Curing is an important post harvest operation in

- (A) Onion, Potato and Mango
- (B) Onion, Mango and Banana
- (C) Onion, Potato and Sweet Potato
- (D) Onion, Watermelon and Jack

193. Point out the correct statement

- (A) Higher the green colour, more is the time required for degreening
- (B) Higher the green colour, lesser is the time required for degreening
- (C) Lower the maturity, lesser is the time required for degreening
- (D) Higher the level of maturity, more is the time required for degreening

194. Garbled Non Bleached Calicut is related to

- (A) Turmeric
- (B) Arecanut
- (C) Ginger
- (D) Pepper

195. Choose the correct sequence of Cashew processing operations

- (A) Shelling → Roasting → Drying → Peeling
- (B) Roasting → Shelling → Drying → Peeling
- (C) Roasting → Shelling → Peeling → Drying
- (D) Shelling → Roasting → Peeling → Drying

196. Post Harvest Dip treatment recommended for banana is

- (A) Waxol 6% + GA 150 ppm
- (B) Waxol 6% + KMnO_4 150 ppm
- (C) Waxol 6% + Ethrel 150 ppm
- (D) Waxol 6% + Benonyl 150 ppm

197. Choose the minimum radiation dose required for delaying ripening in banana

- (A) 10 – 15 K rads
- (B) 15 – 20 K rads
- (C) 20 – 25 K rads
- (D) 25 – 35 K rads

198. Which of the following temperature range promotes rapid degreening of citrus?

- (A) 25°C – 30°C
- (B) 20°C – 25°C
- (C) 15°C – 20°C
- (D) 10°C – 15°C

199. Match the following :

- | | |
|-----------------|------------------|
| (a) Grape | 1. Carotenoid |
| (b) Pomegranate | 2. Quercetin |
| (c) Banana | 3. Cryptoxanthin |
| (d) Avocado | 4. Anthocyanin |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 2 | 4 | 3 | 1 |
| <input checked="" type="checkbox"/> (B) | 2 | 4 | 1 | 3 |
| (C) | 2 | 1 | 3 | 4 |
| (D) | 2 | 1 | 4 | 3 |

200. Which of the following fruit shows very low level ethylene evolution?

- (A) Banana
- (B) Pineapple
- (C) Sapota
- (D) Grapes

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