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**Previous Year Paper
(Horticulture)
06 Dec, 2022**



Post of Forest Apprentice in Tamil Nadu Forest Subordinate Service (Group-VI Services)

1. Method of Hydroponics were first experimented by
(A) Knop (B) Sachs
(C) Arnon (D) Hill
(E) Answer not known

2. Dietitians recommends _____ g of vegetable per day
(A) 150 (B) 200
(C) 300 (D) 500
(E) Answer not known

3. The main commercial varieties of _____ crop is grown in protected conditions under vegetable forcing.
(A) Tomato (B) Bitter guard
(C) Coriander (D) Brinjal
(E) Answer not known

4. The element which acts as catalyst in chlorophyll formation in Horticulture crops
(A) Magnesium (B) Zinc
(C) Iron (D) Manganese
(E) Answer not known

5. Biennial bearing in horticultural crop means
(A) Production of two crops in an year
(B) Production of crop at an alternate year
(C) Production of crop through out the year
(D) None of the above
(E) Answer not known

6. In drip irrigation the water saving achieved is about

(A) 5% (B) 10%
(C) 20% (D) 30%
(E) Answer not known

7. Tomato is a typical _____ plant

(A) Long day (B) Short day
(C) Day neutral (D) Photoinsensitive
(E) Answer not known

8. The deciduous fruits produce new growth and flowers during

(A) Summer (B) Winter
(C) Autumn (D) Spring
(E) Answer not known

9. _____ is a non climatic fruit

(A) Acid lime (B) Mango
(C) Sapota (D) Papaya
(E) Answer not known

10. In Cucurbits, short day conditions favours the production of _____ flowers

(A) Female (B) Bisexual
(C) Male (D) Hermaprodite
(E) Answer not known

11. The potential evapotranspiration rate in arid and semiarid zone is

(A) 2 mm/day (B) 4 mm/day
(C) 6 mm/day (D) 7 mm/day
(E) Answer not known

12. The contribution of horticultural crops to national income is
(A) 13% (B) 15%
(C) 28% (D) 32%
(E) Answer not known

13. _____ production of mango and round the year production of _____ is unique for Tamil Nadu.
(A) Offseason, grapes (B) Round the year, mango
(C) Twice, Banana (D) Cold season, Guava
(E) Answer not known

14. _____ and _____ are the leading fruit crops in Tamil Nadu accounting for over 81% of the total fruit production
(A) Grapes and Citrus (B) Mango and Banana
(C) Sapota and Papaya (D) Guava and Orange
(E) Answer not known

15. The centre of Excellence in Traditional flower crops _____ is established by Government of T.N. recently
(A) Theni (B) Periyakulam
(C) Dindigul (D) Madurai
(E) Answer not known

16. Producing some special crops in relatively larger quantities for distant market is known as
(A) Market garden (B) Truck garden
(C) Kitchen garden (D) Vegetable forcing
(E) Answer not known

17. Among the following fruits, which one is Vitamin 'C' rich fruit
(A) Mango (B) Lime
(C) Aonla (D) Grapes
(E) Answer not known

18. The major importer of floriculture products from India
(A) United Arab Emirates (B) USA
(C) Russia (D) United Kingdom
(E) Answer not known

19. _____ country is known as land of spices
(A) Africa (B) India
(C) America (D) China
(E) Answer not known

20. _____ is the naturally available auxin in the plant system
(A) IAA (B) IBA
(C) NAA (D) 2,4-D
(E) Answer not known

21. Ripening of Sapota can be enhanced by treating the matured fruits in _____ plant growth regulator.
(A) Cytokinin @ 200 ppm (B) GA @ 400 ppm
(C) NAA @ 800 ppm (D) Ethrel @ 5000 ppm
(E) Answer not known

22. Dormancy in leguminous plants occur due to
(A) Impermeability of seed coat to water
(B) Impermeability of seed coat to oxygen
(C) Immature embryo
(D) Immature cotyledons
(E) Answer not known

23. Cardamom seeds when presoaked for 10 minutes in 50% _____ recorded improved germination
(A) Citric acid (B) Sulphuric acid
(C) Nitric acid (D) Hydrochloric acid
(E) Answer not known

24. _____ is very effective in reducing the drop of fruits in pome fruits
(A) GA₃ (B) NAA
(C) Zeatin (D) Kinetin
(E) Answer not known

25. The commonly known gibberellin is
(A) GA₃ (B) GA₅
(C) GA₇ (D) GA₂
(E) Answer not known

26. The timing of leaf abscission is regulated by the interaction of
(A) Ethylene and Auxin (B) Auxin and Cytokinin
(C) Gibberellin and Auxin (D) Gibberellin and Cytokinin
(E) Answer not known

37. During growth and development, if a plant, cannot produce flower, regardless of the environmental conditions imposed on it, then it is said to be in _____ phase

(A) Dormancy (B) Apomixis
 (C) Juvenile (D) Quiescence
(E) Answer not known

38. Which crop is small fruited deciduous woody plant?

(A) West Indian cherry (B) Raspberry
(C) Surinam cherry (D) Singapore cherry
(E) Answer not known

39. When the stamens mature first than the ovary in a plant, it is called as

(A) Protogyny (B) Protoandry
(C) Chasmogamy (D) Homogamy
(E) Answer not known

40. This is not commercially propagated through tissue culture

(A) Orchids (B) Anthuriums
 (C) Roses (D) Begonias
(E) Answer not known

41. The rooting of cuttings enhanced with mist chamber due to

(A) Continuous misting with high temperature
(B) Continuous misting with low temperature
 (C) Intermittent mist with high humidity and high temperature
(D) Intermittent mist with high humidity and low temperature
(E) Answer not known

42. Tuberles are produced in _____ crop
(A) Dioscorea bulbifera (B) Dioscorea alata
(C) Dioscorea rotundata (D) Dioscorea esculenta
(E) Answer not known

43. _____ is a Witt resistant rootstock of guava
(A) Psidium guajava (B) Psidium friedrichsthalianum
(C) Psidium Cattleianum (D) Psidium Fulvum
(E) Answer not known

44. The root cutting is commercially practiced in
(A) Jack fruit (B) Bread fruit
(C) Mandarin (D) Grapes
(E) Answer not known

45. Mound layering is otherwise called as
(A) Compound layering (B) Stooling
(C) Tip layering (D) Serpentine layering
(E) Answer not known

46. In guava varieties grafted on Chinese guava (Psidium friedrichsthalianum) are resistant to
(A) Drought (B) Salinity
(C) Wilt and nematodes (D) Nematodes
(E) Answer not known

47. In certain plants, the adventitious roots become thickened and they do have external and internal structure of roots but lack nodes and internodes are called as
(A) Tuber (B) Tuberous roots
(C) Rhizome (D) Corm
(E) Answer not known

48. Delayed incompatibility was observed when sapota was grafted on _____ stock
(A) Pala (B) Wood apple
 (C) Bassia longifolia (D) Bael
(E) Answer not known

49. Dormancy in seed is not due to
(A) Seed coat (B) Dryness of seed
(C) Chemical inhibitors (D) Rudimentary embryos
(E) Answer not known

50. _____ is a type of reproduction in which sexual organs of related structures take part but seeds are formed without the union of gametes
(A) Vivipary (B) Parthenocarpy
(C) Parthenogenesis (D) Apominis
(E) Answer not known

51. Choose the crop in which clonal root stock used for grafting
(A) Orange (B) Pear
(C) Cashew (D) Sapota
(E) Answer not known

52. The Nutrient essentiality for plants can be tested by
(A) Nutrient culture technique
(B) Hydro ponic culture technique
(C) Hydra phobic culture technique
(D) Aero ponic culture technique
(E) Answer not known

53. Rudimentary embryos are found in _____ seed
(A) Onion (B) Carrot
(C) Orchids (D) Mucuna
(E) Answer not known

54. After fertilization, the seed has developed from
(A) Ovary (B) Ovule
(C) Integuments (D) Polar nuclei
(E) Answer not known

55. The term 'Thali' is nothing but
(A) Plastic trays (B) Seed pan
(C) Fibre pots (D) Earthen pots
(E) Answer not known

56. _____ is a chemical substance used for soil sterilization effective against pest and diseases
(A) Ethylene (B) Acetylene
(C) Formaldehyde (D) Propane
(E) Answer not known

57. This is not a method of heating system practiced in hot beds
(A) ~~Mulching~~ (B) Manure
(C) Hot water (D) Electricity
(E) Answer not known

58. _____ is used generally in mother bed and vegetative plant propagation media in nursery
(A) ~~Sand~~ (B) Soil
(C) Sphagnum mass (D) Vermiculite
(E) Answer not known

59. Carbon dioxide enrichment in green houses is done at
(A) 500–550 ppm (B) 10–100 ppm
(C) ~~1000–2400 pmm~~ (D) 1–5 ppm
(E) Answer not known

60. Fruit thinning plant growth regulator is
(A) ~~NAA~~ (B) BA
(C) GA (D) CK
(E) Answer not known

61. Identify the method of training in which the main stem is allowed to grow only upto a certain height and the leader stem is pruned to encourage scaffold branches
(A) Head system (B) Modified leader
(C) ~~Open centre~~ (D) Central leader
(E) Answer not known

62. Which of the following pairs are sets of an orchard crop and a good companion crop?

(A) Mango and Pipalamool (B) Ber and Coffee
(C) Sapota and Sugarcane (D) ~~✓~~ Banana and Turmeric
(E) Answer not known

63. The partial ringing of a branches below a dormant bud to increase the flowering shoots is

(A) ~~✓~~ Nicking (B) Smudging
(C) Bending (D) Thinning
(E) Answer not known

64. Match the following :

(a)	(b)	(c)	(d)
(A) 1	2	3	4
(B) ✓ 2	4	3	1
(C) 2	3	4	1
(D) 1	3	4	2
(E) Answer not known			

1. Last week of November
2. Mango
3. Jack fruit
4. Guava

65. _____ is a fruit crop which is more sensitive to water logging

(A) ~~✓~~ Papaya (B) Banana
(C) Strawberry (D) Ber
(E) Answer not known

70. In Banana cv Rasthali, disorder characterised by pinkish brown, firm pulp is known as

(A) Hard lump (B) Soft lump
(C) Kottai vazhai (D) Neer vazhai
(E) Answer not known

71. Choose the secondary nutrients from the following

(A) Iron, Zinc, Manganese
(B) Copper, Boron, Molybdenum
(C) Nitrogen, Phosphorus, Potassium
(D) Calcium, Magnesium, Sulphur
(E) Answer not known

72. Urea is the source of nitrogen and the nitrogen content of urea is 46%. In urea, nitrogen is present in the form of

(A) Nitrate (B) Nitrite
(C) Ammoniacal (D) Amide
(E) Answer not known

73. Match the temperature regime with its mean annual soil temperature in °C

Temperature regime	Mean annual soil temperature in °C
(a) Cryic	1. From 8°C to less than 15°C
(b) Hyperthermic	2. More than 0°C but less than 8°C
(c) Mesic	3. is less than 0°C
(d) Pergelie	4. is 22°C or more
(a) (b) (c) (d)	
(A) 3 2 4 1	
(B) 1 3 2 4	
(C) 4 1 2 3	
(D) 2 4 1 3	
(E) Answer not known	

74. The odorous component in poultry manure is

(A) Ammonia (B) Methane
(C) Propane (D) Butane
(E) Answer not known

75. Root growth of plant ceased when the oxygen diffusion rate (ODR) dropped to about _____ g/cm²/min.

(A) 20×10^{-8} (B) 20×10^8
(C) 10×10^{-8} (D) 10×10^8
(E) Answer not known

76. Potassium containing mineral

(A) Sylvinit
(B) Apatite
(C) Tourmaline
(D) None of these
(E) Answer not known

77. The type of bonding between layers of 1:1 clay mineral

(A) Hydrogen bonding
(B) Oxygen linkage
(C) Potassium bonding
(D) Magnesium linkage
(E) Answer not known

78. Sodic soils

(A) EC > 4 dsm⁻¹ and pH < 8.5
(B) EC > 4dsm⁻¹ and pH > 8.5
(C) EC < 4dsm⁻¹ and pH < 8.5
(D) EC < 4dsm⁻¹ and pH > 8.5
(E) Answer not known

79. Wind breaks are planted in orchards towards

(A) South-West
(B) North-West
(C) East-South
(D) North-East
(E) Answer not known

80. The stenospermocarpy phenomenon is found _____ variety of grapes.

(A) Sharad seedless
(B) Flame seedless
(C) Pusa seedless
(D) Thomson seedless
(E) Answer not known

81. Granulation is a physiological disorder in
(A) Citrus (B) Mango
(C) Banana (D) Sapota
(E) Answer not known

82. Growth regulator used for induction of seedlessness in fruits is
(A) GA-100 – 200 ppm (B) MH – 1000 ppm
(C) NAA – 100 ppm (D) Planofix – 450 ppm
(E) Answer not known

83. Bitter pit of apple is due to the deficiency of
(A) Calcium (B) Sulphur
(C) Iron (D) Zinc
(E) Answer not known

84. Protandry occurs in
(A) Custard apple (B) Pomegranate
(C) Almond (D) Coconut
(E) Answer not known

85. Which of the following is the off-season bearing mango variety?
(A) Rumani (B) Niranjan
(C) Langra (D) Alphonsa
(E) Answer not known

86. Botanical name of seedless lime is
(A) Citrus limon (B) Citrus latifolia
(C) Citrus reticulata (D) Citrus aurantium
(E) Answer not known

87. Aonla or Indian gooseberry variety kanchan developed by _____ University

(A) Nausari Agricultural University
(B) Indian Institute of Agricultural Research
(C) Narendra Deva Agricultural University
(D) Anand Agricultural University
(E) Answer not known

88. 'Hass' is a variety in

(A) Fig (B) Avocado
(C) Apple (D) Durian
(E) Answer not known

89. Which is the vertical row planting pattern among the following?

(A) Triangular system (B) Cluster system
(C) Contour system (D) Quincunx system
(E) Answer not known

90. In deciduous fruits, the rest period is coinciding with

(A) Autumn (B) Winter
(C) Summer (D) Spring
(E) Answer not known

91. Which of the following is not the polyembryonic variety of mango?

(A) Alphonso (B) Chandrakaran
(C) Goa (D) Olour
(E) Answer not known

92. What is the botanical name of Brazilian guava?

(A) Psidium Guinense
(B) Psidium Cattleianum
(C) Psidium Friedrichsthalianum
(D) Psidium guajava
(E) Answer not known

93. The annual mean temperature ranging from _____ is ideal for successful mango cultivation.

(A) 14 – 20°C
(B) ~~21 – 27°C~~
(C) 30 – 36°C
(D) 8 – 14°C
(E) Answer not known

94. Which mango variety produce polyembryony seedlings?

(A) Peter
(B) Chausa
(C) Langra
(D) ~~Bapakkai~~
(E) Answer not known

95. Kinnow mandarin is a hybrid of _____ × _____

(A) Trifoliate orange × mandarins
(B) ~~King × willow leaf~~
(C) Trifoliate orange × e.sinensis
(D) King × Dancy
(E) Answer not known

96. Avocado belongs to the family

(A) Myrtaceae
(B) ~~Lauraceae~~
(C) Rutaceae
(D) Guttiferae
(E) Answer not known

102. CO₂ enrichment in green house is done to enhance

(A) Transpiration (B) Respiration
(C) Photosynthesis (D) Oxidation
(E) Answer not known

103. Bolting is defined as _____ in Cabbage.

(A) Splitting of calyx
(B) Fruit splitting
(C) Premature seed stalk formation
(D) Rooting of tubers
(E) Answer not known

104. Match the following :

(a) Tomato	1. Greening
(b) Potato	2. Cat face
(c) Cauliflower	3. Whiptail
(d) Carrot	4. Forking

(a) (b) (c) (d)

(A) 3 2 4 1
(B) 2 4 3 1
(C) 2 1 3 4
(D) 4 1 3 2
(E) Answer not known

109. Brinjal is a _____ plant.

(A) short day plant
(B) long day plant
(C) day neutral plant
(D) intermediate between short day and long day
(E) Answer not known

110. The parentage of K₂ chilli

(A) CO₁ × Sattur Samba
(B) Sattur Samba × K₁
(C) K₁ × Sattur Samba
(D) Sattur Samba × CO₁
(E) Answer not known

111. Cross pollination in onion is due to

(A) Protandry
(B) Protogyny
(C) Dichogamy
(D) Heterostyle
(E) Answer not known

112. Guar gum is obtained from

(A) Cow Pea
(B) French bean
(C) Butter bean
(D) Cluster bean
(E) Answer not known

113. _____ is the early variety (matures in 6 months) of lassava.

(A) Sree Harsha
(B) COTP 4
(C) Sree Jaya
(D) Sree Visakham
(E) Answer not known

114. Shelling percent in pear is

(A) 10-20% (B) 35-50%
(C) 7-10% (D) 75-80%
(E) Answer not known

115. Short day conditions induces more female flowers in

(A) Tomato (B) Bhendi
(C) Onion (D) Bitter gourd
(E) Answer not known

116. _____ is a photo insensitive cultivar of cowpea.

(A) Arka Garima (B) Pusa Phalguni
(C) Pusa Komal (D) Pusa Barsati
(E) Answer not known

117. The common name of Brassica Oleracea var. italica is

(A) Broccoli
(B) Knol Khol
(C) Brussels sprouts
(D) Chinese cabbage
(E) Answer not known

118. _____ crop is the source of iodine content, good for the control of goiter.

(A) Tomato (B) Chilli
(C) Bhendi (D) Onion
(E) Answer not known

119. Rich source of calcium is

- (A) Curry leaves
- (B) Fenugreek leaves
- (C) Drumstick leaves
- (D) Amaranthus leaves
- (E) Answer not known

120. Among the fresh vegetables exported the top most is

- (A) Gherkin
- (B) Onion
- (C) Potato
- (D) Chilli
- (E) Answer not known

121. Which of the following statement about British Garden is incorrect?

- (A) Garden style was informal
- (B) Smooth curvaceous lines were formed
- (C) Plan is asymmetric
- (D) Element of surprise was missing
- (E) Answer not known

122. The serially connected arches are called

- (A) Trellis
- (B) Pergolas
- (C) Arbour
- (D) Pillars
- (E) Answer not known

123. Which of the following statement is incorrect?

- (A) Ficus repens is a foliage climber
- (B) Inachelospermum jasminoides is a climber with scented flowers
- (C) Pothos prefers open sun
- (D) Hedera helix prefers partial shade
- (E) Answer not known

124. 'Fairy ring' problem in lawn is caused by

- (A) Fungus
- (B) Bacteria
- (C) Insects
- (D) Reptiles
- (E) Answer not known

125. Match the following :

(a) <u>Ficus repens</u>	1. Pure white scented flowers
(b) Clematis	2. Heavy climber
(c) Thunbergia	3. Cool dry places
(d) <u>Wisteria Sinensis</u>	4. Cover the surface it climbs

(a)	(b)	(c)	(d)
(A) 4	1	2	3
(B) 1	2	3	4
(C) 2	3	4	1
(D) 3	4	1	2
(E) Answer not known			

126. The lawn grass which is suitable for saline soil conditions is

- (A) cyanodon intermedium
- (B) stenotaphrum secundatum
- (C) sporobolus tremulus
- (D) poa annua
- (E) Answer not known

127. Gazania splendens is classified in to which of the following groups?

- (A) Annuals
- (B) Biennials
- (C) Herbaceous Perennials
- (D) Climbers and Creepers
- (E) Answer not known

128. The arrangement of potted plants around a tree or any central object such as statue is known as

- (A) Topiary
- (B) Rockery
- (C) Trophy
- (D) Shrubbery
- (E) Answer not known

129. Running water is the life and soul of _____ garden.

- (A) Mughul
- (B) English
- (C) Japanese
- (D) Persian
- (E) Answer not known

130. 'Kakada' jasmine is botanically known as

- (A) Jasminum sambac
- (B) Jasminum grandiflorum
- (C) Jasminum auriculatum
- (D) Jasminum multiflorum
- (E) Answer not known

131. Flowering period in marigold is prolonged by

- (A) Ethrel at 500 ppm
- (B) CCC at 3000 ppm
- (C) GA₃ at 1000 ppm
- (D) NAA at 1000 ppm
- (E) Answer not known

132. Origin of African marigold is

- (A) Mexico
- (B) Africa
- (C) France
- (D) America
- (E) Answer not known

133. _____ is a wax like substance containing the natural flower perfume together with plant waxes and pigments.

- (A) Concrete
- (B) Absolute
- (C) Oil
- (D) Essential oil
- (E) Answer not known

134. The solvent used for the extraction of Jasmine concrete is

- (A) Sodium benzoate
- (B) Food grade Hexane
- (C) Ascorbic acid
- (D) Silver nitrate
- (E) Answer not known

135. The which of the following statement carnation differed from chrysanthemum

- (A) Produces cut flowers
- (B) Requires pinching
- (C) Long day plant
- (D) Commercially cultivated in India
- (E) Answer not known

136. Tuberose variety tolerant to Meloidogyne incognita nematode is

- (A) Prajwal
- (B) Shrinagar
- (C) Rajat Rekha
- (D) Vaibhav
- (E) Answer not known

137. The concrete recovery percent from jasminum auriculatum is

- (A) 0.33 per cent
- (B) 0.27 per cent
- (C) 0.19 per cent
- (D) 0.15 per cent
- (E) Answer not known

138. The optimum spacing recommended for Mullai is

- (A) 1.5×1.5 sq.meters
- (B) 1.25×1.25 sq.meters
- (C) 2.0×1.5 sq.meters
- (D) 2.0×2.0 sq.meters
- (E) Answer not known

139. Crossandra (Crossandra Infundibuliformis) is belong to the family

- (A) Asteraceae
- (B) Acanthaceae
- (C) Malvaceae
- (D) Iridaceae
- (E) Answer not known

140. The tuberose cultivation is concentrated in the districts of _____ Tamil Nadu.

- (A) Salem and Erode
- (B) Dharmapuri and Krishnagiri
- (C) Virudhunagar and Sivagangai
- (D) Madurai and Coimbatore
- (E) Answer not known

141. Write the correct statement from the following

- (A) Pea berry in coffee refers to the whole bean dried along with pulp
- (B) Elephant bean is due to incomplete fertilization
- (C) Abnormal, defective and broken bits of coffee are known as triage
- (D) Cherry coffee obtained after complete removal of pulp and musilage
- (E) Answer not known

142. In spices crops oleoresin is obtained by extraction of dry ground spices with the use of

- (A) Distilled water
- (B) Hexane
- (C) Petroleum ether
- (D) Hydrochloric acid
- (E) Answer not known

143. _____ is responsible for the colour of the made tea

- (A) Theaflavins and thearubigens
- (B) Caffeine
- (C) Glycosides
- (D) Coumarines
- (E) Answer not known

144. To reduce the moisture content of tea leaves by spreading them in troughs are called

- (A) Withering
- (B) Rolling
- (C) Grading
- (D) Fermentation
- (E) Answer not known

145. Which of the following statements regarding Cocoa type Criollo are correct?

- I. Pod colour – Dark red
- II. Flavour – Bland
- III. Pod surface – Smooth
- IV. Duration for fermentation 6 days

(A) I, II and III are correct
(B) I and II are correct
(C) III and IV are correct
(D) All are correct
(E) Answer not known

146. Tapping has to be done on a slope of _____ to the horizontal zone in the case of seedlings of rubber.

(A) 40° (B) 25°
(C) 30° (D) 35°
(E) Answer not known

147. The origin of Palmyrah is

(A) Tropical Africa (B) Asia
(C) Rica (D) Madagascar
(E) Answer not known

148. The tapping system followed by small growers of rubber with 200% intensity

(A) $S_2 d_1$ (B) $S_2 d_2$
(C) $S_2 d_3$ (D) $S_2 d_4$
(E) Answer not known

149. The bearing habit of cocoa is

- (A) Terminal
- (B) Lateral
- (C) ✓ Adventitiously on the trunk
- (D) Both terminal and lateral
- (E) Answer not known

150. The seed rate for coriander is _____ kg/ha.

- (A) 1-2
- (B) 5-8
- (C) ✓ 10-15
- (D) 20-25
- (E) Answer not known

151. The 'curcumin' content of turmeric ranges from

- (A) 7.5 to 9.5 percent
- (B) 0.5 to 1.5 percent
- (C) 10 to 15 percent
- (D) ✓ 1.8 to 5.4 percent
- (E) Answer not known

152. Collection of dropped fruits of coffee during harvest is

- (A) ✓ Gleaning
- (B) Picking
- (C) Stripping
- (D) Cleaning
- (E) Answer not known

153. Improved selection made in Tamarind from TNAU and is cultivated in many parts of India is

- (A) DTS 1
- (B) ✓ PKM 1
- (C) Urigam
- (D) Yugeswari
- (E) Answer not known

158. Match the following :

(a) Arecanut	1. Pekoe
(b) Tea	2. EPC2X
(c) Palmyrah	3. Chali
(d) Rubber	4. Neera

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

(E) Answer not known

159. Which is the herbal spice classified as hardy annual?

(A) Marjoram	(B) Mint
(Q) Parsely	(D) Thyme
(E) Answer not known	

160. Alleppey green, coorg green, bleached white are the grades of

(A) Cardamom	(B) Ginger
(C) Clove	(D) Pepper
(E) Answer not known	

161. The chief constituent of cumin seed is

(A) β -carophyllene
(B) Cineole
(C) Linalool
(D) Cuminaldehyde
(E) Answer not known

162. The Central Coffee Research Institute is situated at

- (A) Coorg, Karnataka
- (B) Mysuru, Karnataka
- (C) Balahanur, Karnataka
- (D) Thadiyankudisai, Tamilnadu
- (E) Answer not known

163. "Cochin oil" is extracted from the leaves of

- (A) Lenpn grass
- (B) Palmarosa grass
- (C) Vettiver
- (D) Geranium
- (E) Answer not known

164. The Nirmal variety of periwinkle is resistant to

- (A) Leaf spot
- (B) Leaf miner
- (C) Collor rot and root rot
- (D) Leaf mosaic
- (E) Answer not known

165. What is the major fraction of essential oil of Ocimum gratissimum?

- (A) Methyl Eugenol
- (B) Glycosides
- (C) Linalool
- (D) Linalyl acetate
- (E) Answer not known

166. How much oil yield can be obtained from patchouli grown in a hectare

(A) 10-20 kg/ha/year
(B) 30-40 kg oil/ha/year
(C) 60-70 kg/ha/year
(D) 80-100 kg/ha/year
(E) Answer not known

167. Palmarosa variety, Jawahar Rosa 68 contains _____% of geraniol.

(A) 85.6%
(B) 89.2%
(C) 91.7%
(D) 90.3%
(E) Answer not known

168. Where geranium can be grown commercially

(A) 500-700 m above MSL altitude regions
(B) 700-800 m above MSL altitude regions
(C) 1000-1500 m above MSL altitude regions
(D) 2000-3500 m above MSL altitude regions
(E) Answer not known

169. What is the total Recommended quantity of NPK for medicinal solanum

(A) 100 : 80 : 80 kg/ha
(B) 80 : 80 : 60 kg/ha
(C) 60 : 80 : 80 kg/ha
(D) 50 : 40 : 40 kg/ha
(E) Answer not known

170. The periwinkle variety 'Nirmal' is resistant to which biotic stress

- (A) Resistant to leaf spot
- (B) Resistant to leaf minor
- (C) Resistant to dieback
- (D) ✓ Resistant to collar rot and root rot
- (E) Answer not known

171. High yielding variety of aswagandha released by CIMAP is

- (A) Jawahar Asgandh-20
- (B) Nagori
- (C) ✓ Poshita
- (D) Jawahar Asgandh-134
- (E) Answer not known

172. The economic part of medicinal solanum is

- (A) Leaves
- (B) Root
- (C) ✓ Fruit
- (D) Whole Plant
- (E) Answer not known

173. 'Tushar' is variety of which mint crop

- (A) Japanese mint
- (B) Spear mint
- (C) Bergamot mint
- (D) ✓ Pepper mint
- (E) Answer not known

174. Choose the best planting material for commercial cultivation of vetiver?

- (A) Seeds
- (B) Seedlings
- (C) Slips
- (D) Cuttings
- (E) Answer not known

175. Pepper mint is botanically called as

- (A) Mentha arvensis L
- (B) Mentha Piperata L
- (C) Mentha spicata L
- (D) Mentha Citrata L
- (E) Answer not known

176. The origin of Solanum Kharianum is

- (A) India
- (B) Madagascar
- (C) Mexico
- (D) Africa
- (E) Answer not known

177. Match the following :

(a) Palmarosa	1. Johore
(b) Patchouli	2. Krishna
(c) Citronella	3. Vaishnavi
(d) Lemongrass	4. Mandakini

(A) 4	3	1	2
(B) 3	1	4	2
(C) 2	4	1	3
(D) 2	4	3	1
· (E) Answer not known			

178. What is the commercial method of propagation of medicinal coleus?

(A) Terminal cuttings
(B) Seeds
(C) Suckers
(D) Divisions
(E) Answer not known

179. The chief constituent of lemon grass oil is

(A) Geraniol	(B) Citral
(C) Citranellal	(D) Linalool
(E) Answer not known	

180. India holds monopoly in production and export of which one of the medicinal plants?

(A) Medicinal coleus	(B) Senna
(C) Aloe Vera	(D) Aswagandha
(E) Answer not known	

181. What is the share of traditional medicine in the total pharmaceutical products at world level?

(A) 60% (B) 50%
(C) 30% (D) ~~40%~~
(E) Answer not known

182. Linalool is a aromatic compound present in the essential oil of

(A) Lemon grass (B) Lavender
(C) ~~Bergamot mint~~ (D) Geranium
(E) Answer not known

183. _____ is used as a preservative in colored fruit juice.

(A) Potassium metabisulphite
(B) Acetic acid
(C) Citric acid
(D) ~~Sodium benzoate~~
(E) Answer not known

184. The minimum prescribed level of sugar and acidity in chutney is

(A) 68 percent TSS and 1% acidity
(B) 50 percent TSS and 5% acidity
(C) 68 percent TSS and 5% acidity
(D) ~~50 percent TSS and 1% acidity~~
(E) Answer not known

185. Potassium metabisulphite (KMS) when added as preservative, liberates _____ which reacts with water to form sulphurous acid.

(A) CO_2 (carbon di oxide)
(B) SO_2 (sulphur di oxide)
(C) O_2 (oxygen)
(D) C_2H_4 (Ethylene)
(E) Answer not known

186. The important enzyme involved in climacteric rise of CO_2 is

(A) \checkmark Pyruvic carboxylase (B) Amylase
(C) Pectinase (D) Cellulase
(E) Answer not known

187. The TSS content in pomegranate towards maturity is

(A) \checkmark 15-17% (B) 11-13%
(C) 8-10% (D) 5-7%
(E) Answer not known

188. In the beginning of modern packaging _____ container was used as packaging material for food preservation.

(A) Corrugated fibre board
(B) Tin plates
(C) \checkmark Airtight glass bottle
(D) Plastics
(E) Answer not known

193. Skin coating in fruits and vegetables is

(A) Very thin film of preservative
(B) Very thin film of wax
(C) Very thin film of pesticide
(D) Very thin film of fungicide
(E) Answer not known

194. Among the fruits _____ can be waisted and among the vegetables _____ can be waisted to reduce transpiration loss.

(A) Apple and pumpkin
(B) Banana and string beans
(C) Guava and Cabbage
(D) Grapes and Carrot
(E) Answer not known

195. The term used for placing the cut flower in water is

(A) Impregnation (B) Pulsing
(C) Bad opening (D) Conditioning
(E) Answer not known

196. Which of the following statement is true?

(A) Colour development is the index of maturity in sapota
(B) Disappearance of angularity is the maturity index of custard apple
(C) Abscission of pod is the maturity index of peas
(D) Oil content is the maturity index of Avocado
(E) Answer not known

197. Dry brushing is the type of cleaning done in

- (A) Apple
- (B) Citrus
- (C) Sapota
- (D) Kiwifruits**
- (E) Answer not known

198. Principal causes of postharvest losses and poor quality in onion is due to

- (A) Sprouting and rooting**
- (B) Chilling injury
- (C) High respiration rate
- (D) Compositional changes
- (E) Answer not known

199. Maturity indices for cabbage

- (A) Compact flower head
- (B) Spear length
- (C) Head size**
- (D) Head solidity**
- (E) Answer not known

200. Read the following statement and answer :

- I. Arils of pomegranate are stored well under controlled atmosphere with 0-5°C temperature and 15–20% CO₂
- II. Shredded carrots can be stored under controlled atmosphere with 0-5°C temperature, 5% O₂ and 5% CO₂

- (A) Both are true
- (B) Both are false
- (C) I is true and II is false**
- (D) I is false and II is true
- (E) Answer not known