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**Assistant Horticulture
Officer 2019**

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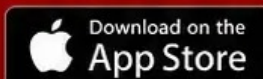


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Test Booklet Series

T. B. C. : AHO – 2019

A**TEST BOOKLET**

ASSISTANT HORTICULTURE OFFICER

SI. No.

2319

Time Allowed : 3 Hours

Maximum Marks : 200

: INSTRUCTIONS TO CANDIDATES :

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10. Sheets for rough work are appended in the Test Booklet at the end.

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SEAL

1. The Orissa Fruit Nurseries (Regulation) was enacted during the year :
 (A) 1967
 (B) 1977
 (C) 1987
 (D) 1997
2. Which media has a relatively high cation exchange capacity ?
 (A) Peat
 (B) Vermiculite
 (C) Perlite
 (D) Pumice
3. In which media bacterial and chemical decomposition of plant material is slowed down ?
 (A) Bog
 (B) Vermiculite
 (C) Perlite
 (D) Pumice
4. Which fumigant is used both as fungicide and insecticide for treating nursery soil ?
 (A) Chloropicrin
 (B) Formaldehyde
 (C) Carbon disulphide
 (D) Methyl bromide
5. Natural branch grafting to strengthen scaffold limbs of tree is known as :
 (A) Top working
 (B) Inarching
 (C) Bracing
 (D) Stubbing
6. Blunt part of budding knife used for opening bark and insertion of bud is known as :
 (A) Splints
 (B) Quill
 (C) Raffia
 (D) Open case
7. Indicator plant for greening in citrus is :
 (A) Acid lime
 (B) Sour orange
 (C) Citron
 (D) Mandarin
8. Embryo that by passes the usual process of meiosis and fertilization is known as :
 (A) Apomixis
 (B) Chimera
 (C) Totipotency
 (D) Parthenocarp
9. Hard wood cutting are usually prepared from wood of the :
 (A) Current season growth
 (B) Previous seasons growth
 (C) Summer season growth
 (D) Autumn season growth

10. The duration for quick dip method of cuttings in hormonal solution is :
 (A) 5-10 seconds
 (B) 20-30 seconds
 (C) 30-40 seconds
 (D) 40-50 seconds
11. The age of mango scion for grafting by Veneer method should be between :
 (A) 1-2 months
 (B) 3-6 months
 (C) 6-9 months
 (D) 10-12 months
12. In which apomixis the resulting embryo is haploid ?
 (A) Vegetative apomixis
 (B) Facultative apomixis
 (C) Recurrent apomixis
 (D) Non-recurrent apomixis
13. Nucellar seedlings arising from polyembryonic seeds of mango are considered as :
 (A) Seedling rootstock
 (B) Dwarfing rootstock
 (C) Clonal rootstock
 (D) Vigorous rootstock
14. Which interstock is used for overcoming incompatibility in pear quince rootstock ?
 (A) Beurre Hardy
 (B) Sydo
 (C) Adams 332
 (D) Quince C
15. Which rootstock show inverted bottleneck condition in ber (*Ziziphus mauritiana*) ?
 (A) *Ziziphus horsefieldi*
 (B) *Ziziphus spinachristi*
 (C) *Ziziphus mitsol*
 (D) *Ziziphus numalaria*
16. In which solidifying agent, contamination is easily detected in tissue culture ?
 (A) Agar
 (B) Agarose
 (C) Gerlite
 (D) Phytigel
17. The plants in which embryo develops from the egg cell without fertilization are normally :
 (A) Diploids
 (B) Haploids
 (C) Triploids
 (D) Tetraploids
18. Litchi chinensis is a :
 (A) Long Day Plant
 (B) Short Day Plant
 (C) Day Neutral Plant
 (D) Short-Long Day Plant

19. Which among the following has the property of totipotency ?
 (A) Nucellus
 (B) Zygote
 (C) Chimera
 (D) Clone
20. The term "ramet" refers to :
 (A) Clonal selection
 (B) Chance seedling
 (C) Vegetative offspring
 (D) Mutant
21. Which fruit crop has maximum share in terms of production ?
 (A) Banana
 (B) Citrus
 (C) Papaya
 (D) Mango
22. The genetic constitution of hermaphrodite plant in papaya is :
 (A) M_1m
 (B) M_2m
 (C) MM
 (D) mm
23. The tedious process of emasculation in pineapple is overcome due to :
 (A) Incompatibility of pollen
 (B) Incompatibility of ovule
 (C) Incompatibility of pollen and ovule
 (D) Incompatibility of stigma
24. Which loquat cultivar is a good polliniser for golden and pale yellow cultivars ?
 (A) Fire Ball
 (B) Thames Pride
 (C) Tanaka
 (D) California Advance
25. Maru Gaurav is a new release in :
 (A) *Aegle marmelos*
 (B) *Salvadora oleoides*
 (C) *Carissa carandus*
 (D) *Syzygium cumini*
26. The major protein from the jackfruit seed is :
 (A) Myosin
 (B) Somatropin
 (C) Actin
 (D) Jacalin
27. Four lobed calyx cap fruit is :
 (A) Aonla
 (B) Mangosteen
 (C) Mandarin
 (D) Loquat

28. Internode shortening in mango is due to the deficiency of :
 (A) Nitrogen
 (B) Phosphorus
 (C) Potassium
 (D) Calcium
29. Higher level of ethylene is produced in :
 (A) Climacteric fruits
 (B) Nonclimacteric fruits
 (C) Suppressed climacteric fruit
 (D) Suppressed nonclimacteric fruit
30. High carotenoid mango variety having potential for juice production and blending is :
 (A) Mallika
 (B) Chausa
 (C) Alphonso
 (D) Amrapalli
31. The trigeneric hybrid in citrus of different genera is :
 (A) Limequat
 (B) Citrangequat
 (C) Citrumquat
 (D) Kumquat
32. The first order sylleptic branches are usually formed in :
 (A) *Aegle marmelos*
 (B) *Emblica officinalis*
 (C) *Ziziphus mauritiana*
 (D) *Grewia subinaequalis*
33. Which crop is considered as calcifuges crop ?
 (A) Mango
 (B) Banana
 (C) Citrus
 (D) Date palm
34. The bark of which fruit is rich in white gummy latex called "chicle" ?
 (A) Sapota
 (B) Jackfruit
 (C) Mangosteen
 (D) Custard apple
35. The retention of Vitamin C in aonla is due to the presence of :
 (A) β Sorbitosol
 (B) Palmitic acid
 (C) Alanine
 (D) Leucoanthocyanin
36. Which arid fruit is the richest source of β carotene ?
 (A) *Cereus peruvianus*
 (B) *Cordia dichotoma*
 (C) *Capparis deciduas*
 (D) *Salvadora oleoides*

37. Try (G)1 is a variety of :
 (A) Banana
 (B) Guava
 (C) Pummelo
 (D) Jackfruit
38. Mumification is a problem of which fruit crop ?
 (A) Mango
 (B) Litchi
 (C) Guava
 (D) Loquat
39. Which is a flood tolerant rootstock of Annona ?
 (A) *A. glabra*
 (B) *A. reticulata*
 (C) *A. squamosa*
 (D) *A. cherimola*
40. The calyx of which flower in pomegranate is Urceolate ?
 (A) Male
 (B) Female
 (C) Hermaphrodite
 (D) Intermediate
41. The optimum age for transplanting of coconut seedling is :
 (A) 1-2 months
 (B) 2-4 months
 (C) 4-6 months
 (D) 9-12 months
42. Which hybrid is a progeny of cross between West Coast tall and Gangabondam ?
 (A) Lakshaganga
 (B) Keraganga
 (C) Anandaganga
 (D) Chandralaksha
43. The most commercial viable technique for propagation of cashew nut is :
 (A) Embryo grafting
 (B) Epicotyle grafting
 (C) Soft wood grafting
 (D) Shoot tip grafting
44. In date palm the disaccharides are converted into monosaccharides at :
 (A) Kimri stage
 (B) Rutab stage
 (C) Hababook stage
 (D) Tamar stage
45. Removal of male and female flowers at the early stages in oil palm is known as :
 (A) Ablation
 (B) Pinching
 (C) Dura
 (D) Deblossmming

46. Which cocoa variety is used in luxury chocolate ?
 (A) Amazon
 (B) Trinatairo
 (C) Forastero
 (D) Criollo
47. Chupon is a growth term related to seedlings in :
 (A) Tea
 (B) Cocoa
 (C) Coffee
 (D) Rubber
48. The parentage of Bhubaneswar variety of cashew nut is :
 (A) M44/3
 (B) BLA 39/4
 (C) Vengrula 36/3
 (D) VTH 107/3
49. As a palm Areacanut is :
 (A) Monoecious
 (B) Dioecious
 (C) Gynodioecious
 (D) Endromonoecious
50. Blacknose a physiological disorder is associated with :
 (A) Coconut
 (B) Banna
 (C) Date palm
 (D) Cashew nut
51. Coconut toddy is obtained by tapping the :
 (A) Unopened spathe
 (B) Unopened spadix
 (C) Opened spadix
 (D) Opened spathe
52. Which grade of cashew nut falls under Jumbo nuts ?
 (A) W-180
 (B) W-210
 (C) W-240
 (D) W-320
53. Plucking of tea leaf should be done before unfurling of :
 (A) Third leaf
 (B) Fourth leaf
 (C) Fifth leaf
 (D) Eighth leaf
54. Palmyrah palm is a :
 (A) Tropical crop
 (B) Subtropical crop
 (C) Arid crop
 (D) Temperate crop
55. The tri-nut seeds selected from palmyrah palm gives :
 (A) 3 female trees
 (B) 3 male trees
 (C) 2 female and 1 male trees
 (D) 2 male and 1 female trees

56. The recommended planting density of budded rubber trees / ha is :
 (A) 175-200
 (B) 250-300
 (C) 420-445
 (D) 550-600
57. Brown blast is a major physiological disorder of :
 (A) Tea
 (B) Cocoa
 (C) Coffee
 (D) Rubber
58. The major production constraint in cashew nut is :
 (A) Thrips
 (B) Tea mosquito bug (TMB)
 (C) Leaf and blossom webber
 (D) Mealy bug
59. Shade growing coffee in India should be trained on :
 (A) Single stem
 (B) Double stem
 (C) Three stem
 (D) Multiple stem
60. Which Fenugreek Variety has been developed through mutation breeding ?
 (A) RMT 305
 (B) RMT 143
 (C) RMT 303
 (D) RMT 1
61. The potato crop during tuberization need :
 (A) Long day condition
 (B) Short day condition
 (C) Day Neutral
 (D) Long-short day condition
62. Which gourd is also known as white flowered gourd ?
 (A) Bottle gourd
 (B) Ridge gourd
 (C) Bitter gourd
 (D) Pointer gourd
63. Little leaf of brinjal is caused due to :
 (A) Fussarium
 (B) Damping off
 (C) Blight
 (D) Mycoplasma
64. White coloured brinjal is good for :
 (A) Arthritis patient
 (B) Diabetic patient
 (C) Kidney patient
 (D) TB patient
65. Pillow disorder of cucumber is due to the deficiency of :
 (A) Calcium
 (B) Magnesium
 (C) Boron
 (D) Iron

66. Removal of central portion of curd for flower initiation in cauliflowers is known as :
- (A) Roughing
(B) Stackilling
(C) Scooping
(D) Netting
67. Which among the following is a C-4 vegetable ?
- (A) Potato
(B) Spinach
(C) Raddish
(D) Amaranth
68. Crimson Globe is a variety of :
- (A) *Beta Vulgaris*
(B) *Daucus carota*
(C) *Raphanus sativus*
(D) *Brassica rappa*
69. Recommended isolation distance for certified seed of okra is :
- (A) 150 m
(B) 250 m
(C) 350 m
(D) 500 m
70. Minimum standard for genetic purity of tomato and brinjal is :
- (A) 80%
(B) 85%
(C) 90%
(D) 95%
71. Which trap crop is effective for the control of Diamond black moth in cabbage ?
- (A) Mustard
(B) African marigold
(C) Maize
(D) Seasmum
72. The world leader in cultivating horticultural crops under protected structure is :
- (A) Israel
(B) India
(C) Brazil
(D) China
73. Indian Institute of Vegetable Research is located at :
- (A) Bangalore
(B) New Delhi
(C) Varanasi
(D) Ranchi
74. Which is plant growth retardant ?
- (A) Paclobutrazol
(B) Brassins
(C) Promalin
(D) Triacontanol

75. Zinc is responsible for the biosynthesis of which plant auxin ?
 (A) IAA
 (B) NAA
 (C) IBA
 (D) 2, 4-D
76. Which chilli variety is resistant to CMV, TMV and leaf curl viruses ?
 (A) Pusa Jwala
 (B) Pusa Sadabahar
 (C) Pusa Deepti
 (D) None of these
77. Utkal Urvasi is a popular variety of :
 (A) Brinjal
 (B) Chilli
 (C) Tomato
 (D) Okra
78. Zoning disorder is associated with :
 (A) Cauliflower
 (B) Beet root
 (C) Carrot
 (D) Cabbage
79. The seed rate for open pollinated variety of hot pepper for 75-100 m² area is :
 (A) 100-200 g
 (B) 200-400 g
 (C) 400-600 g
 (D) 600-800 g
80. Forking in radish and carrot is due to :
 (A) High temperature
 (B) Low temperature
 (C) Moisture stress
 (D) Excessive moisture
81. Andromonoecy condition is found in which spice crop ?
 (A) Coriander
 (B) Black pepper
 (C) All spice
 (D) Nutmeg
82. In which spice crop the pericarp is removed before sowing :
 (A) Small cardamom
 (B) Clove
 (C) Large cardamom
 (D) Black pepper
83. Which turmeric species is known as mango ginger ?
 (A) *Curcuma zedoaria*
 (B) *Curcuma decipiens*
 (C) *Curcuma amada*
 (D) *Curcuma angustifolia*
84. The optimum time for sowing garlic in Orissa is :
 (A) March-April
 (B) May-June
 (C) July-August
 (D) October-November

85. Coriander seeds should be harvested when :
 (A) 10% seeds turn yellow
 (B) 30% seeds turn yellow
 (C) 50% seeds turn yellow
 (D) 70% seeds turn yellow
86. Which of the following fennel species (Var) can be cultivated as vegetable ?
 (A) *Foeniculum vulgare* var *azorium*
 (B) *Foeniculum vulgare* var *dulce*
 (C) *Foeniculum vulgare* var *piperitum*
 (D) *Foeniculum vulgare* var *vulgare*
87. Large cardamom are cured to retain a moisture content of :
 (A) 3-5%
 (B) 10-13%
 (C) 15-20%
 (D) 25-30%
88. Which *Curcuma* species is known as Indian arrow root ?
 (A) *Curcuma amada*
 (B) *Curcuma zedoaria*
 (C) *Curcuma angustifolia*
 (D) *Curcuma decipiens*
89. The chemical primarily responsible for the colour of saffron is :
 (A) Annato
 (B) Lutein
 (C) Zeaxanthin
 (D) Crocin
90. An open pollinated progeny of Balankotta in black pepper is :
 (A) Panniyur 1
 (B) Panniyur 2
 (C) Panniyur 3
 (D) Panniyur 4
91. Which large cardamom variety suited for higher altitude and on steep slope ?
 (A) Golsey
 (B) Sawney
 (C) Ramsey
 (D) Ramla
92. The optimum temperature required for bulb development in onion is :
 (A) 5-9°C
 (B) 15-21°C
 (C) 25-32°C
 (D) 32-45°C
93. Ginger variety developed by OUA & T, Bhubaneswar is :
 (A) Suprabha
 (B) Manathodi
 (C) Thingpuri
 (D) Himgiri

94. Which turmeric variety have been developed by OUA&T, Bhubaneswar?
- (A) Sonia
(B) Sugandham
(C) Pratibha
(D) Suroma
95. The gum/resin is trapped from which medicinal plant?
- (A) Henbane
(B) Liquorice
(C) Guggal
(D) Isabgol
96. Which medicinal plant is considered as safe laxative?
- (A) *Plantago ovata*
(B) *Hyocyanus niger*
(C) *Solanum viarum*
(D) *Glycyrrhiza glabra*
97. Which seed spice has its use as food, feed, medicine and cosmetic?
- (A) Fenugreek
(B) Cumin
(C) Kalonji
(D) Dill
98. In which tree spice "Pipping" is done?
- (A) All spice
(B) Nutmeg
(C) Cinnamon
(D) Clove
99. An essential oil containing high carvone content can be obtained from:
- (A) Dill
(B) Asgard
(C) Guggal
(D) Henbane
100. Trashing is an important cultural operation in:
- (A) Cardamom
(B) Cinnamon
(C) Clove
(D) Saffron
101. Band of flowers or foliage intertwined into a ring is known as:
- (A) Button hole
(B) Wreath
(C) Vani
(D) Corsage
102. The process of artificial colouring of flowers is known as:
- (A) Bleaching
(B) Gulroban
(C) Potpourri
(D) Tinting

103. Which among the following is a richest source of lutein ?
 (A) Marigold
 (B) Rose
 (C) Chrysanthemum
 (D) Gladiolus
104. ICAR-Directorate of Floricultural Research is located at :
 (A) ICAR-DFR, New Delhi
 (B) ICAR-DFR, Anand
 (C) ICAR-DFR, Pune
 (D) ICAR-DFR, Bangalore
105. Which among the following shrub is called "Glory of the Garden" ?
 (A) Hydrangea
 (B) Forsythia
 (C) Bougainvillea
 (D) Rhododendron
106. In which form Chrysanthemum flowers are trained to give the effect of waterfall ?
 (A) Bush form
 (B) Coniform
 (C) Fan form
 (D) Cascade form
107. In which art of training, evergreen plants are trained to different shape ?
 (A) Topiary
 (B) Arch
 (C) Terrace
 (D) Pergola
108. *Baradari* is a main feature of :
 (A) Mughal garden
 (B) English garden
 (C) Japanese Garden
 (D) French Garden
109. The scientific name of 'Juhi' is :
 (A) *Jasminum sambac*
 (B) *Jasminum rrandiflorum*
 (C) *Jasminum auriculatum*
 (D) *Jasminum multiflorum*
110. Thornless variety of Rose is :
 (A) Blue moon
 (B) Crimson glory
 (C) Tushar
 (D) Suchitra
111. Dormancy of corms/cormels in gladiolus can be broken by storing them at :
 (A) Low temperature
 (B) High temperature
 (C) High humidity
 (D) High moisture

112. Which pinching method is followed for early flower crop in carnation ?
 (A) Pinch-and-a-half
 (B) Single pinch
 (C) Double pinch
 (D) Tripple pinch
113. A perennial plant with several branches arising from the base of plant is known as :
 (A) Bog
 (B) Edge
 (C) Hedge
 (D) Shrub
114. Terrarium is an art of growing plants :
 (A) On terraces
 (B) On rocks
 (C) In glass container
 (D) In water
115. Which of the following is a summer flowering annual ?
 (A) Cosmos
 (B) China Aster
 (C) Sweet Pea
 (D) Calendula
116. The maximum number of orchid species is found in :
 (A) Shillong
 (B) Sikkim
 (C) West Bengal
 (D) Tripura
117. Which rootstock of rose is recommended for coastal areas ?
 (A) *Rosa bourboniana*
 (B) *Rosa multiflora*
 (C) *Rosa cannia*
 (D) *Rosa indica*
118. Cut flower species other than the major cut flowers are referred to as :
 (A) Plug plant
 (B) Rentals
 (C) Traditional flowers
 (D) Speciality flowers
119. Which ornamental crop is an indicator plant for fluoride pollution ?
 (A) Chrysanthemum
 (B) Tuberose
 (C) Gladiolus
 (D) Cosmos
120. Which state excels in cut flower production ?
 (A) Karnataka
 (B) Tamilnadu
 (C) West Bengal
 (D) Shillong
121. Seed Act was enacted during the year :
 (A) 1956
 (B) 1966
 (C) 1976
 (D) 1986

122. Structure used for protecting young plants from cold temperature are known as :
- Cloches
 - Flax
 - Drop cloth
 - Blankets
123. Which hormone is known as juvenile hormone ?
- Auxin
 - Ethylene
 - Gibberellin
 - Cytokinin
124. Which egg parasite is used for controlling fruit borer in tomato ?
- Apanteles plutellae*
 - Bracon spp.*
 - Trichogramma spp.*
 - Perbaea orbata*
125. Which orientation of poly house ensures maximum hours of sunlight ?
- North-South
 - South-East
 - North-East
 - East-West
126. Which cucurbit varieties are preferred for growing in polyhouse ?
- Monecious
 - Dioecious
 - Gynoecious
 - Endromonecious
127. Low volume high value cash crop can be obtained :
- Glass house cultivation
 - Plug tray production
 - Net house cultivation
 - Protected cultivation
128. Which trap crop is recommended for Broccoli ?
- Marigold
 - Tube rose
 - Chrysanthemum
 - Gladiolus
129. Which is a safe recommended method for ripening of fruits ?
- Calcium carbide
 - Ethylene
 - Acetylene gas
 - Smoke chambers
130. Which is a safe recommended method for ripening of fruits ?
- Calcium carbide
 - Ethylene
 - Acetylene gas
 - Smoke chambers

131. Which nutrient plays important role in cell division and elongation ?
 (A) Nitrogen
 (B) Phosphorus
 (C) Potassium
 (D) Calcium
132. On the basis of shape, fullness of cheeks is a maturity indices of :
 (A) Mango
 (B) Banana
 (C) Pineapple
 (D) Litchi
133. Application of fertilizer and other nutrients through drip irrigation is known as :
 (A) Biofortification
 (B) Pulsing
 (C) Fertigation
 (D) Micro irrigation
134. Which growth hormone is used for parthenocarpic fruit development ?
 (A) IBA
 (B) NAA
 (C) Cytokinin
 (D) Gibberellin
135. Which crop is considered as "Gold mine" of wasteland ?
 (A) Bael
 (B) Ber
 (C) Cashew nut
 (D) Aonla
136. Internationally recognized system for reducing the risk of safety hazard in crops is :
 (A) HACCP
 (B) QAFS
 (C) GAP
 (D) FLAFSR
137. Matting row system of training is practiced in :
 (A) Tea
 (B) Coffee
 (C) Saffron
 (D) Strawberry
138. The critical stage of crop-weed completion in cauliflower :
 (A) 5-10 DAS/DAP
 (B) 15-20 DAS/DAP
 (C) 30-45 DAS/DAP
 (D) 60-70 DAS/DAP
139. The recommended spacing is in meadow orcharding of guava is :
 (A) 1m × 1m
 (B) 1m × 2m
 (C) 2m × 1m
 (D) 2m × 3m

140. Tapping is a maturity indices for :
- Watermelon
 - Muskmelon
 - Cabbage
 - Cucumber
141. Drip irrigation scheduling for different soil type in potato is optimum at :
- 5-10 mm Cumulative Pan Evap.
 - 15-25 mm Cumulative Pan Evap.
 - 30-55 mm Cumulative Pan Evap.
 - 40-50 mm Cumulative Pan Evap.
142. Recommended isolation distance for the production of foundation seed of Onion is :
- 250 meters
 - 500 meters
 - 750 meters
 - 1000 meters
143. The seeds, which remain viable at relatively high moisture content are called as :
- Orthodox seeds
 - Recalcitrant seeds
 - Pure seeds
 - Genuine seeds
144. Which leaf in pineapple is sampled for nutrient analysis ?
- A Leaf
 - B Leaf
 - C Leaf
 - D Leaf
145. In which system of training trees are trained to form V shape ?
- Spindle bush
 - Tatura Trellis
 - Vertical Centre
 - Vertical Axis
146. "AGMARK" is related with :
- Packaging
 - Processing
 - Purity and Quality
 - Retail Price
147. Through which biological agent Parthenium can be controlled ?
- Cactoblastis cactorum*
 - Octoma scabripennis*
 - Dactylopius indicus*
 - Zygogramma biocolorata*
148. Which nutrient is recommended to be applied in split doses ?
- Nitrogen
 - Phosphorus
 - Potassium
 - Calcium

149. Which organism decomposes organic matter at a faster rate ?

- (A) *Glomus*
- (B) *Azotobacter*
- (C) *Trichoderma*
- (D) *Basidiomycetes*

150. The index tissue for analysis of cashew is :

- (A) 2nd leaf from tip of mature branches
- (B) 4th leaf from tip of mature branches
- (C) 6th leaf from tip of mature branches
- (D) 8th leaf from tip of mature branches

151. Indian Meteorological Department was established during the year :

- (A) 1875
- (B) 1925
- (C) 1935
- (D) 1945

152. The Headquarters of the Indian Meteorological Department (IMD) is located in :

- (A) Pune
- (B) Shimla
- (C) Allahabad
- (D) Delhi

153. As per the Planning Commission the number of agro-climatic zone in India are :

- (A) 15
- (B) 20
- (C) 25
- (D) 30

154. Odisha have been classified into how many agro-climatic zones ?

- (A) 05
- (B) 10
- (C) 15
- (D) 20

155. Major parts of Koraput district of Odisha falls under which agro-climatic zone ?

- (A) Western Undulating Zone
- (B) North Central Plateau
- (C) Eastern Ghat Highland
- (D) North Western Plateau

156. The clay fractions of red soil of Orissa is dominated by :

- (A) Gibbsite and Goethite
- (B) Smectites and Gibbsite
- (C) Kaolinites and Illites
- (D) Goethite and Hematite

157. The clay size as per the classification of International Society of Soil Science is :
- < 2 microns
 - 2-20 microns
 - 20-200 microns
 - >200 microns
158. Which soil needs liming for effective and efficient fertilizer use ?
- Acid soils
 - Saline soils
 - Alkaline soils
 - Saline-sodic soils
159. Accumulation of excessive Na^+ , Ca^{++} or Mg^{++} with Cl^- or SO_4^- in soil results in :
- Acidic soils
 - Saline soils
 - Sodic soils
 - Sandy soils
160. Which nutrient is involved in the movement of photosynthates in plant system ?
- Nitrogen
 - Phosphorus
 - Potassium
 - Calcium
161. The soil and water conservation measure for fruit trees grown on steep slope is :
- Bench Terraces
 - Conservation Bench
 - Gully Control
 - Half Moon Terraces
162. Soil conservation measure recommended for areas with 10% slope and >800 mm rainfall :
- Contour bunds
 - Graded bunds
 - Bench terraces
 - Grassed waterways
163. Deposition of soil load in the lower most reaches of the catchment by water erosion is the :
- First stage of soil erosion
 - Second stage of soil erosion
 - Third stage of soil erosion
 - Fourth stage of soil erosion
164. Which antitranspirant reduces water loss through stomatal closing ?
- Phenyl mercuric acetate
 - Kaolin
 - Hexadecanol
 - Cycocel

165. The mathematical derivation for recommending irrigation by Pan Evaporation Method is :
- E/Pan-IW
 - IW/Pan-E
 - Pan/IW-E
 - Pan-E/IW
166. Which among the following is an example of obligate weed ?
- Cuscuta reflexa*
 - Chenopodium album*
 - Argemone mexicana*
 - Euphorbia hirta*
167. Removal of weeds with their roots and rhizome through mechanical force is known as :
- Chilling
 - Chaining
 - Spudding
 - Dredging
168. Which growth regulator is also used as a herbicide ?
- 2, 4-D
 - 2, 4, 5-T
 - Cytokinin
 - ABA
169. ICAR-Directorate of Weed Research is located at :
- Orissa
 - Jagdalpur
 - Raipur
 - Jabalpur
170. A product has 40% acid equivalent (a.e.). To apply 2 kg a.e./ha, what will be the quantity of formulation required ?
- 2.5 kg/ha
 - 5.0 kg/ha
 - 7.5 kg/ha
 - 10.0 kg/ha
171. The formulae for Aridity index is :
- AE/PET
 - $P-PET/PET \times 100$
 - $WD/PET \times 100$
 - $PET/AE \times 100$
172. Plants first line of defense against abiotic stress is in its :
- Bud
 - Leave
 - Stem
 - Root
173. Which mango rootstock is recommended for drought prone areas ?
- Mangifera caloneura*
 - Mangifera gedebe*
 - Mangifera zeylanica*
 - Mangifera odorata*

174. Xeric character is related to :
- (A) Shallow root system
(B) Enlarged leaf area
(C) Sunken stomata
(D) Profused vegetative growth
175. The estimated area under dryland and rainfed farming in India is approximately :
- (A) 27%
(B) 47%
(C) 67%
(D) 87%
176. The natural resources (Soil, Water, Solar radiation) can be efficiently utilized in :
- (A) Shifting cultivation
(B) Fruit based cropping systems
(C) Alley cropping
(D) Relay cropping
177. When three or more crops with different morphology are grown with coconut it is known as :
- (A) High Density Plantation
(B) Subsistence Farming
(C) Mixed Cropping
(D) Multistorey Cropping
178. The harmful effect of litter fall of over storey crops on lower storey crops is known as :
- (A) Allelopathy
(B) Allelospoly
(C) Antagonism
(D) Tropism
179. Growing of grasses in the inter space of fruit tree species is known as :
- (A) Horti-Agri System
(B) Horti-Silvi System
(C) Horti-Pastoral System
(D) Horti-Agri-Pastoral System
180. In which farming there is used of information and technology based systems ?
- (A) Mixed farming
(B) Intensive farming
(C) Precision farming
(D) Dry Agriculture
181. Dormancy imposed by factors outside the embryo is known as :
- (A) Exogenous dormancy
(B) Endogenous dormancy
(C) Double dormancy
(D) Quiescence
182. Which crop losses dormancy during dry storage ?
- (A) Chenopodium
(B) Tomato
(C) Cucumber
(D) Mustard

183. Real value of seed usually preferred for sowing purpose should be :
 (A) <50%
 (B) <70%
 (C) 50-70%
 (D) >70%
184. Impurity percentage of seed is referred to as :
 (A) Dockage
 (B) Utility percentage
 (C) Real value
 (D) Tempering
185. Scarification is one of the techniques to break :
 (A) Double dormancy
 (B) Endogenous dormancy
 (C) Exogenous dormancy
 (D) Secondary dormancy
186. The benefit cost ratio of horticultural crops is calculated by the formulae :
 (A) Gross Return/Total Cost
 (B) Gross Return – Total Cost
 (C) Total Cost/Gross Return
 (D) Gross Return – Total Cost/Total Cost
187. Which agency is involved in enhancing export of processed agricultural products ?
 (A) DMI
 (B) TRIFED
 (C) NAFED
 (D) APEDA
188. In which farming income from a single product is less than 50 percent ?
 (A) Specialised farming
 (B) Diversified farming
 (C) Rainfed farming
 (D) Sole farming
189. Which kind of budgeting would you advise to a new farm planner ?
 (A) Zero budgeting
 (B) Enterprise budgeting
 (C) Partial budgeting
 (D) Complete budgeting
190. According to law of diminishing return the economically relevant zone is :
 (A) Zone I
 (B) Zone II
 (C) Zone III
 (D) Zone IV
191. To find the average height of plants we should work out the :
 (A) Total
 (B) Mean
 (C) Median
 (D) Mode
192. In a frequency distribution of a large number of values, the observation of mode is :
 (A) Largest
 (B) Smallest
 (C) With maximum frequency
 (D) With minimum frequency

193. Probability of any event is a number lying between :
- (A) 0 – 1
(B) 1 – 5
(C) 5 – 10
(D) 10 – 15
194. Correlation coefficient range between :
- (A) $-\alpha$ to $+\alpha$
(B) 0 to 1
(C) -1 to + 1
(D) 0 to α
195. Logarithmic transformation is used to stabilise :
- (A) Poisson variate
(B) Sample variance
(C) Binomial variate
(D) Correlation coefficient of variation
196. Tree banding is used for the control of :
- (A) *Drosicha mangiferae*
(B) *Batocera rufomaculata*
(C) *Clumetia transversa*
(D) *Eublemma versicolo*
197. Which antibiotic is effective against gram positive and gram negative bacteria ?
- (A) Cycloheximide
(B) Streptomycin
(C) Griseofulvin
(D) Aureofungin
198. Chemical that is beneficial to releaser and not favourable to receiver is known as :
- (A) Allomones
(B) Kairomome
(C) Allelochemicals
(D) Buprofezin
199. Which of the following insecticide belong to Neonicotinoid group ?
- (A) Sevin
(B) Nuvacron
(C) Rogor
(D) Confidor
200. The capacity of high volume spray is :
- (A) $>100 \text{ l/ha}$
(B) $>200 \text{ l/ha}$
(C) $>300 \text{ l/ha}$
(D) $>400 \text{ l/ha}$



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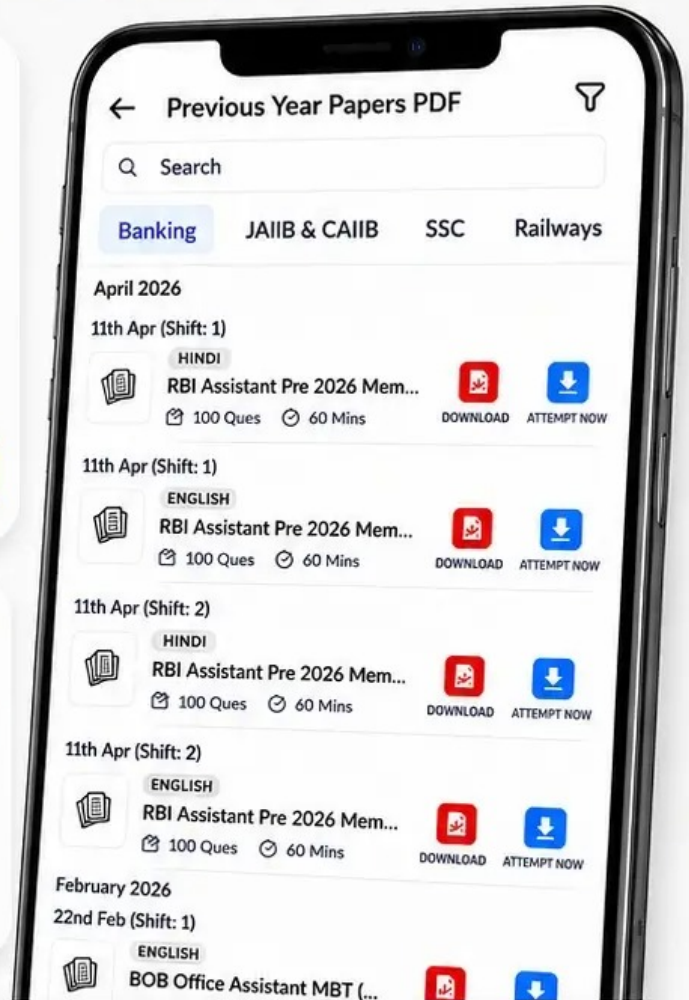
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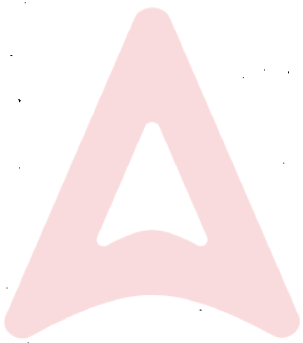
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