

MTS/JRF/2015/Horti/2

ICAR's JRF Exam 2014-15

(Major Subject Group: **Horticulture**Test: **2**)**Model Test Series**

Date: / /2015  
Time: 2 hrs 30 min.

Roll No :   
Total Page: Nine

**Instructions**

**Directions:** Round the box straight to right answer with Black/Blue Pen.

**Question type:** from Q.(1) to Q.(150) will be Multiple Choice type questions (MCQs) with four answer choice and from Q.(151) to Q.(160) will be Cross-Matching type questions (CMQs)

**Total Questions:** 160 (150 MCQs + 10 CMQs)

**Marking Rules:**

1. For each correctly answered MCQs = 4 (four) marks
2. For each correctly answered CMQs = 5 marks (1 mark for each correct pairing)
3. For each incorrectly answered MCQs = - 1 (ONE) mark will be deducted from total marks scored.
4. For each incorrectly pairing answer of CMQs = 0.2 mark will be deducted from total marks scored.
5. For question with no response = 0 Mark (and no negative marking for that question)

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1. Which one of following is multiple fruit?  
a) Fig                                      b) Strawberry                                      c) Aonla                                      d) Pomegranate
2. Which of the following plant is Day Neutral Plant?  
a) Papaya                                      b) Guava                                      c) Both a & b                                      d) Cashew
3. Carambola belongs to which family?  
a) Saxiferaceae                                      b) Oxalidaceae                                      c) Guttiferaceae                                      d) Caricaceae
4. Strawberry is native to which place?  
a) China                                      b) Himalaya                                      c) Brazil                                      d) None
5. Which one is called 'Food of God'?  
a) Coffee                                      b) Cocoa                                      c) Beal                                      d) Banana
6. Grape is native to which place?  
a) Black to Caspian Sea                                      b) Europe                                      c) Mediterranean Sea                                      d) S E Asia
7. White rust of Cole crops is controlled by soil treatment of  
a) Lime                                      b) Gypsum                                      c) Lead Aresenate                                      d) Copper Sulphate
8. Black Coriander variety of Grape has which kind of parthenocarpy?  
a) Stenospermocarpy                                      b) Vegetative                                      c) Stimulative                                      d) None
9. Pollination in Oil Palm is done by:  
a) Honey Bee                                      b) Wasp                                      c) Hand Pollination                                      d) Weevil
10. Edible part of Coconut is:  
a) Mesocarp                                      b) Endocarp                                      c) Endosperm                                      d) Perianth
11. Mango seed kernel has percentage of protein:  
a) 9.5%                                      b) 22%                                      c) 24%                                      d) 12% .
12. Akshay cultivar of Mango is selection from:  
a) Langra                                      b) Dashehari                                      b) Neelam                                      d) Ratna
13. Semi tall sport of Dwarf Cavendish Banana is:  
a) Grand Naine                                      b) Robusta                                      c) Ney Poovan                                      d) Nendran
14. Papaya cultivar suitable for papain extraction is:  
a) Pusa Delicious                                      b) Pusa Majesty                                      c) CO-1                                      d) Pusa Nanha
15. Scientific name of Chinese Guava is:  
a) *P. fridrichsthalianum*                                      b) *P. Guajava*                                      c) *P. cottleianum*                                      d) None
16. Most common rootstock of Custard Apple is:  
a) *A. Squamosa*                                      b) *A. Reticulate*                                      c) *A. atemoya*                                      d) *A. muricata*
17. Which one is Non-astringent variety of Persimmon is?  
a) Fiyu                                      b) Triumph                                      c) Hachiya                                      d) Nightingale
18. Which rootstock Citrus is resistant to greening?  
a) Rangpur Lime                                      b) Adjmir                                      c) Troyer Citrange                                      d) Flying Dragon
19. Which rootstock Citrus is resistant to Tristeza Virus?  
a) Rangpur Lime                                      b) Adjmir                                      c) Rough Lemon                                      d) Flying Dragon
20. Who is famous Grape breeder?  
a) J.H. Higgin                                      b) H.D, Olmo                                      c) H.B. Frost                                      d) None

21. Propagation of Litchi is done by:
  - a) Gooti
  - b) Seed
  - c) Softwood Grafting
  - d) Inarching
22. Pruning in Fig is done in month of:
  - a) March
  - b) June
  - c) Oct
  - d) Dec
23. Avocado is botanically which kind of fruit?
  - a) Berry
  - b) Nut
  - c) Drupe
  - d) Capsule
24. Powdery Mildew resistant variety of Ber is:
  - a) Sanur-2
  - b) Dodhia
  - c) Tikdi
  - d) Umran
25. Seedless cultivar of Jamun is:
  - a) Raj Jamun
  - b) Paras
  - c) Narendra Jamun
  - d) Desi Jamun
26. Thames Pride is popular cultivar of:
  - a) Peach
  - b) Loquat
  - c) Plum
  - d) Apricot
27. Most winter hardy rootstock of Apple is:
  - a) MM-I04
  - b) M-27
  - c) MM-III
  - d) Merton-793
28. To break dormancy in Apple Seed Stratification takes how much days:
  - a) 15-30 Days
  - b) 30-60Days
  - c) 60-90Days
  - d) 90-120Days
29. Pear cultivar which also grown in South India is:
  - a) Leconte
  - b) Sand Pear
  - c) Gola
  - d) Kiffer
30. Which training system is most suitable for Peaches?
  - a) Modified Central Leader System
  - b) Modified Leader System
  - c) Open Central Leader System
  - d) Central Leader System
31. Most commonly Plum varieties grown in India is:
  - a) Japanese
  - b) European
  - c) Hybrids
  - d) None
- 32) Which Plum cultivar comes earliest in the market?
  - a) Jamuni
  - b) Santa Rose
  - c) Frontier
  - d) Titron
33. Clonal rootstock of Cherry is:
  - a) Pixy
  - b) Colt
  - c) Paja
  - d) Mazzard
34. Most Popular Variety of Almond is
  - a) Non-Pareil
  - b) Ne Plus Ultra
  - c) Pearless
  - d) All of these
35. Maturity indices of Walnut harvesting is:
  - a) Peel or Wall cracking
  - b) Fruit Turn Yellow
  - c) Fruit Peel turn Hard
  - d) None
36. Colour of flower in Strawberry is:
  - a) White
  - b) Red
  - c) Pink
  - d) Pale Yellow
37. Coconut is botanically which kind of fruit?
  - a) Nut
  - b) Berry
  - c) Stone Fruit
  - d) Capsule
38. Triploid variety of Tea is:
  - a) Sundram
  - b) Slogara
  - c) Jayaram
  - d) Athrey
39. Grape is rich source of:
  - a) Folic Acid
  - b) Tartaric Acid
  - c) Oxalic Acid
  - d) Citric Acid
40. Marsh seedless is seedless cultivar of:
  - a) Sweet Orange
  - b) Lemon
  - c) Mandarin
  - d) Grape Fruit
- 41 Which cultivar is immune to Panama Wilt in Banana?
  - a) Grosss Michel
  - b) Poovan
  - c) Basrai
  - d) All of these
42. Leaf Rust of Coffee is caused by:
  - a) *Gonoderma lucidum*
  - b) *Hamelia vestretrix*
  - c) *Tephрина deformens*
  - d) None
43. What is sprayed out to sort out problem of Mango Malformation?
  - a) NAA@200ppm
  - b) Cultar
  - c) IBA
  - d) 2-4D
44. Fascination is physiological disorder of:
  - a) Sapota
  - b) Pineapple
  - c) Strawberry
  - d) Avocado



45. Kaveri is very popular cultivar of:  
 a) Coconut                      b) Passion Fruit                      c) Tea                      d) None
46. Most common method of breeding in cross pollinated crop is:  
 a) Mass Selection                      b) Pedigree Method                      c) Hybridization                      d) Pure line Method
47. Metsubre is physiological disorder of:  
 a) Sweet Potato                      b) Yams                      c) Colocasia                      d) None
48. High & Low temperature suitable cultivar of Tomato is:  
 a) Pusa H-1                      b) Pusa Sheetal                      c) Pusa Sadabahar                      d) Arka Saurabh
49. Brinjal is good source of:  
 a) Vitamin A                      b) Vitamin B                      c) Vitamin C                      d) None
50. Sweet Banana is important cultivar of:  
 a) Apple                      b) Banana                      c) Capsicum                      d) Potato
51. Which cultivar of Okra is resistant to YVMV?  
 a) Arka Abhay                      b) Arka Anamika                      c) Pusa Sawni                      d) Parbhani Kranti
52. Green Challenger is famous variety of:  
 a) Chilli                      b) Lima Bean                      c) Cabbage                      d) Pea
53. Edible part of Cabbage is called:  
 a) Head                      b) Curd                      c) Tuber                      d) Knob
54. Globe shaped variety of Radish is:  
 a) Rapid Red White                      b) Chinese Pink                      c) Newari                      d) White Icicle Tipped
55. Which crop does not have any Indian varieties?  
 a) Palak                      b) Carrot                      c) Beet Root                      d) Beet Leaf
56. Most suitable conditions for Purple Blotch is:  
 a) 28-30°C, 65% RH                      b) 18-20°C, 65% RH                      c) 28-30°C, 90% RH                      d) 18-20°C, 90% RH
57. Curing in Onion & Garlic is done for much time?  
 a) 1-2Weeks                      b) 2-3Weeks                      c) 3-4Weeks                      d) 5-6Weeks
58. Which chemical is sprayed on Cucumbers to increase the no. of female flowers?  
 a) Ethrel                      b) GA<sub>3</sub>                      c) Silver Nitrate                      d) All of above
59. Maximum no. of fruits with high TSS is produced on which node of Musk Melon?  
 a) 4-6                      b) 6-8                      c) 9-12                      d) 12-15
60. Fruits of Bitter Gourd are ready for harvesting after how many days?  
 a) 40-45Days                      b) 45-60Days                      c) 60-70Days                      d) 75-90Days
61. Male Plantation should be in Pointed Gourd is:  
 a) 5%                      b) 10%                      c) 20%                      d) 50%
62. Pea cultivar resistance to Powdery Mildew and Rust is:  
 a) Bonneville                      b) Arkel                      c) Harbhajan                      d) Arka Ajit
63. Dwarf variety of Cow Pea is:  
 a) Arka Suman                      b) Pusa Kamal                      c) Pusa Garima                      d) Pusa Phalguni
64. Giant Leaf variety of Palak is:  
 a) Pusa Jyoti                      b) Jobner Green                      c) Pusa Bharti                      d) Pusa Harit
65. Edible part of Sweet Potato is modified:  
 a) Root                      b) Stem                      c) Both a & b                      d) Leaf
66. Scientific name of White Yam is:  
 a) *D. Alata*                      b) *D. esculanta*                      c) *D. Rotundata*                      d) *D. floribanda*
67. Scientific name of Leek is:  
 a) *Allium sativum*                      b) *Allium cepa*                      c) *Allium porum*                      d) *Allium shallot*
68. Garden Beet belongs to which genus?  
 a) *Brossica*                      b) *Raphanus*                      c) *Beta*                      d) None

69. Seed requirement of Beet Leaf (palak) is:  
 a) 9kg/ha                      b) 15-20kg/ha                      c) 25-30kg/ha                      d) 35-50kg/ha
70. Black Leg Rot of Cauliflower is transmitted by:  
 a) Water                      b) Seed                      c) Soil                      d) None
71. Herkogamy is found in which crop?  
 a) Lima Bean                      b) Pea                      c) French Bean                      d) None
72. Which one is pseophyte spice plant?  
 a) Large Cardamom                      b) Small Cardamom                      c) Cinnamon                      d) Black Pepper
73. Radish belongs to which family?  
 a) Cruciferae                      b) Compositae                      c) Chenopodaceae                      d) Convolvulaceae
74. Species of Round Melon is:  
 a) *lanatus*                      b) *vulgaris*                      c) *fistulosus*                      d) None
75. Pusa Alankar is famous cultivar of:  
 a) Snake Gourd                      b) Winter Squash                      c) Pumpkin                      d) Summer Squash
76. Scientific name of Agathi is:  
 a) *Sesbania grandiflora*                      b) *Apium graveolense*                      c) *Sechium edule*                      d) None
77. Toxin substance present in French Bean is:  
 a) Serotonin                      b) Trypsin Inhibitor                      c) Heemaglutine                      d) Choline Esterase
78. Original form of Pumpkin is:  
 a) Monoecious                      b) Hermaphrodite                      c) Dioecious                      d) Gynodioecious
79. Blossom End Rot of Chilli is due to:  
 a) Bacteria                      b) Fungi                      c) Non parasitic                      d) Virus
80. Garlic Bulb is which form of bulb?  
 a) Multiple Bulb                      b) Compound Bulb                      c) Clove                      d) All of above
81. The underground stem of Nelumbium is popular vegetable in:  
 a) North India                      b) South India                      c) Hills                      d) Western India
82. Directorate for Garlic and Onion is situated at:  
 a) Bikaner                      b) Pune                      c) Nasik                      d) Nagpur
83. Pollination in Vanilla is done by  
 a) Wind                      b) Water                      c) Insect                      d) Artificial Pollination
84. Which Cucurbit has cooling effect on the body?  
 a) Long Melon                      b) Round Melon                      c) Pumpkin                      d) Bitter Gourd
85. Best curing temperature and RH for Sweet Potato is:  
 a) 30°C, 80% RH                      b) 50°C, 30%RH                      c) 50°C, 80% RH                      d) 80°C, 30%RH
86. Which one of following is only Sub-tropical Pome fruit?  
 a) Pear                      b) Peach                      c) Plum                      d) Loquat
87. Which one is called Pepo?  
 a) Water Melon                      b) Pear                      c) Banana                      d) Guava
88. Origin centre of Pineapple is:  
 a) India                      b) China                      c) Brazil                      d) Europe
89. Carambola is rich in which acid?  
 a) Tatric Acid                      b) Oxalic Acid                      c) Nicotinic Acid                      d) Citric Acid
90. Tree of Paradise is common name of:  
 a) Coconut                      b) Date Palm                      c) Banana                      d) Apple
91. Storage temperature of Pineapple is:  
 a) 0°C                      b) 5-6°C                      c) 11-13°C                      d) 8-9°C
92. Largest producer of Coconut is:  
 a) India                      b) Indonesia                      c) Sri Lanka                      d) China

93. Inflorescence of Ber is:  
 a) Fascicle                      b) Panicle                      c) Spadix                      d) Solitary
94. Edible part of Guava is:  
 a) Thalamus                      b) Pericarp                      c) Both a & b                      d) Placenta
95. TSS of Mango is generally:  
 a) 18%                      b) 20%                      c) 22%                      d) 24%
96. Sindu seedless cultivar of Mango is developed by cross of:  
 a) Ratna X Alphonso                      b) Neelum X Alphonso                      c) Desahari X Neelum                      d) Neelum X Desahari
97. Most Bananas cultivar is in nature are:  
 a) Diploid                      b) Triploid                      c) Amphidiploid                      d) Allotetraploid
98. Bodies Altafort Synthetic hybrid of Banana is cross of:  
 a) Gross Michel X                      b) Bombay Green X                      c) Gross Michel X                      d) Bombay Green X  
 Pisang lilin                      Pisang lilin                      Laden                      Laden
99. Origin of cinnamon is from:  
 a) South East Asia                      b) Indo-Burma                      c) Sri Lanka                      d) Indonesia
100. Variety of Pineapple suitable for canning purpose is:  
 a) Queen                      b) Kew                      c) Mauritius                      d) Jaldhup
101. Kirti Bharti is important cultivar of:  
 a) Sapota                      b) litchi                      c) Peach                      d) Plum
102. Propagation in Jackfruit is done by:  
 a) Seed                      b) Patch Budding                      c) Air Layering                      d) Inarching
103. Bud Mutant of Nagpur Mandarin is:  
 a) Mosami                      b) Kinnow                      c) Mudkhed                      d) Pineapple
104. Foster is well known cultivar of:  
 a) Strawberry                      b) Avocado                      c) Grape                      d) Grape Fruit
105. Back pruning or foundation pruning in Grapes is practiced in months of:  
 a) April                      b) July                      c) September                      d) December
106. Percentage of Grapes used for wine making worldwide is:  
 a) 10%                      b) 30%                      c) 50%                      d) 90%
107. Early and non cracking variety of Litchi is:  
 a) Rose Scented                      b) Shahi                      c) Gulabi                      d) Dehradun
108. Mridula is famous cultivar of:  
 a) Guava                      b) Pomegranate                      c) Grape                      d) Grape Fruit
109. Aonla is which kind of fruit plant?  
 a) Evergreen                      b) Semi-deciduous                      c) Deciduous                      d) None
110. Softening of Dates is taken place at which stage?  
 a) Doka                      b) Pind                      c) Dang                      d) Gandora
111. Banana takes how many days for maturity?  
 a) 70-90 Day                      b) 90-120 Days                      c) 120-150 Days                      d) 150-180 Days
112. For canning vegetables should be:  
 a) Firm                      b) Ripe                      c) Tender                      d) All of above
113. Fruit juice and TSS of barley water is:  
 a) 25, 30                      b) 40, 50                      c) 10, 10                      d) 20, 15
114. Extensive cultivation is done in which type of gardens?  
 a) Kitchen                      b) Market                      c) Truck                      d) Processing gardens
115. Which fruit is rich source of calcium  
 a) Litchi                      b) Sapota                      c) Date                      d) Bael
116. *Hybeana thebica* is a branching palm located in which garden?  
 a) Sayaji park                      b) Conoor Garden                      c) Lal bagh                      d) Brindavan Garden



117. Which cultivar of rose has been patented by the USA?  
 a) Sindoor                      b) Mohini                      c) Priya                      d) None
118. Pusa Basanti is an open pollinated cultivar of:  
 a) Zinnia                      b) Chrysanthemum                      c) Marigold                      d) Gladiolus
119. Amar Shola is a cultivar of:  
 a) Marigold                      b) Aster                      c) Dalhia                      d) Chrysanthemum
120. Dioecy is very common in which plant?  
 a) Aster                      b) Amaranthus                      c) Asparagus                      d) Petunia
121. Diploid Chromosome no. of Rose is:  
 a) 10                      b) 14                      c) 24                      d) 30
122. Maximum area under loose flowers in India is in:  
 a) Marigold                      b) Crossandra                      c) Jasmine                      d) Tuberose
123. Which flowers are store at minimum 15° C temperature?  
 a) Rose                      b) Crossandra                      c) Chrysanthemum                      d) All of Above .
124. Calyx splitting in carnation is due to:  
 a) Genetic factors                      b) Nutritional factors                      c) Environment factors                      d) All of above
125. Rose is harvested at which stage?  
 a) Tight bud stage                      b) Half open stage                      c) Fully open stage                      d) None
126. Which one is important ethylene inhibitor used for increase longevity of cut flowers?  
 a) Silver Thiosulphate                      b) HQC                      c) Aluminium Sulphate                      d) Sugar
127. Percentage of absolute in the non purified concrete is:  
 a) 10%                      b) 45-55%                      c) 5%                      d) 20-25%
128. Which annual cultivated for oil extraction:  
 a) Swept William                      b) Candytuft                      c) Pansy                      d) Sweet Pea
129. English art of flower arrangement is based on which theme?  
 a) Religious                      b) Spiritual                      c) Social                      d) Aesthetic
130. Optimum C: N ratio of potting media should be:  
 a) High                      b) Low                      c) Medium                      d) Anyone
131. Botanical name of Parrot flower is:  
 a) *Erythrina indica*                      b) *Erythrina varigeta*                      c) *Erythrina subrosa*                      d) *Erythrina crisgalli*
132. Which of the plant bear showy leafy bracts?  
 a) Bougainvillea                      b) Mussanda                      c) Poinsettia                      d) Both b & c
133. Which one is cool season climber?  
 a) *Pyrostegia venusta*                      b) Ipomea                      c) Clitara                      d) *Ficus rapens*
134. Nugget is important hybrid cultivar of:  
 a) Gladiolus                      b) Parimula                      c) Marigold                      d) None
135. Gladiolus is propagated through:  
 a) Bulb                      b) Rhizome                      c) Tuber                      d) Corm
136. Y2K is important cultivar of:  
 a) Chrysanthemum                      b) Bougianvillea                      c) Marigold                      d) Gladiolus
137. What is the size of Mamie bonsai (height in Inches)?  
 a) 2-6                      b) 6-12                      c) 12-24                      d) 24-60
138. Flame of the forest or Dhak bears flowers of which colour?  
 a) Red                      b) Yellow                      c) Scarlet Orange                      d) Blue
139. Fountain tree bears flowers in the month of  
 a) Jan-Feb                      b) March-Apr                      c) July-Aug                      d) Throughout year
140. Anthurium belongs to which family?  
 a) Asteraceae                      b) Caryophyllaceae                      c) Araceae                      d) None

141. Dibbler is used for  
 a) Ploughing                      b) Seed sowing                      c) Levelling of land                      d) Intercultural operations
142. Which of the following soils have high water holding capacity  
 a) Sandy soil                      b) Loamy soil                      c) Clay soil                      d) Silt loam
143. Drip irrigation is mostly used in which country  
 a) Israel                      b) America                      c) Australia                      d) Japan
144. Which types of RNA takes a message from DNA in nucleus to the ribosome in cytoplasm  
 a) m - RNA                      b) r - RNA                      c) t - RNA                      d) All of the above
145. Phytotron is used for  
 a) Growing of plants in controlled environment                      b) Leaf fall occurs on abscission layer                      c) Mutations are produced in plants especially during spores formation                      d) Protons are liberated after photosynthesis
146. Annual (growth) rings are formed by the activity of  
 a) Xylem                      b) Phloem                      c) Vascular bundle                      d) Cambium
147. The phytohormone which influences apical dominance is  
 a) IAA                      b) ABA                      c) GA<sub>3</sub>                      d) C<sub>2</sub>H<sub>4</sub>
148. Fruit type of Strawberry is  
 a) Pome                      b) Berry                      c) Etaerio of achenes                      d) Etaerio of berries
149. 'Red Flesh' is a variety of  
 a) Tomato                      b) Water Melon                      c) Apple                      d) Guava
- 150 Irish Famine in Potato was due to  
 a) Late Blight disease                      b) Bacterial Blight disease                      c) Blast disease                      d) Ear Cockle disease

## II. Match the following

151. ____ 1. Iridaceae ____ 2. Rosaceae ____ 3. Caryophyllaceae ____ 4. Compositae ____ 5. Orchidaceae	a) Marigold b) Orchids c) Rose d) Carnation e) Gladiolus	152. ____ 1. Wintering ____ 2. Tinting ____ 3. Scoring ____ 4. Tissue Culture ____ 5. Disbudding	a) Orchids b) Rose c) Chrysanthemum d) Gladiolus e) Carnation
153. ____ 1. Bullhead ____ 2. Negative Geotropism ____ 3. Bud Blast ____ 4. Calyx Splitting ____ 5. Quilling	a) Dahlia, b) Carnation c) Rose d) Gladiolus e) Lilium	154. ____ 1. Legume Inoculant ____ 2. Cereal inoculant ____ 3. Free Uving Organism ____ 4. Mycorrhiza ____ 5. Phosphate	a) Symbiosis b) Phosphate Mobilization c) Azospirillum d) Azatobader e) Rhizobium
155. ____ 1. Rangpur Ume ____ 2. Rough Lemon ____ 3. Sweet Ume ____ 4. Tahti Ume ____ 5. Pummelo	a) C. <i>limonica</i> b) C. <i>jambri</i> c) C. <i>latti/olia</i> . d) C. <i>limetoids</i> e) C. <i>grandis</i> .	156. ____ 1. Kewada ____ 2. Ambrette ____ 3. Jamalgota ____ 4. Vitever Grass ____ 5. Mellisa	a) Whole Herb b) Roots c) Seed d) Fruit e) Flower
157. ____ 1. Patchouli ____ 2. Rosemary ____ 3. Jamalgota ____ 4. Ambrette ____ 5. Senna	a) Cgrminative b) Anti-cancerous c) Fixati"Ve d) Violent Purgative e) Musk Odour	158. ____ 1. Potato ____ 2. Tomato ____ 3. Leek ____ 4. Onion ____ 5. Yam	a) 16 b) 28 c) 32 d) 24 e) 48
159. ____ 1. Fire Blight ____ 2. Apple Scab ____ 3. MLO ____ 4. Papaya Ring Spot ____ 5. Fungus	a) Fungi b) Pear decline c) bacteria d)virus e) coffee rust	160. ____ 1. Exanthema ____ 2. Leaf Necrosis ____ 3. Fruit Necrosis ____ 4. Calyx End Rot ____ 5. Tea Yellow disease	a) Zn b)Cu c)Ca d)B e)S