

# Horticulture JRF Question Paper 2018 (Offline Exam )

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01.Black pod is disease of:

- (A) Arecanut (B) Coconut
- (C) Chestnut (D) Cocoa

02.Edible portion of Turnip is:

- (A) Hypocotyl (B) Root
- (C) Tuber (D) Stem

03.An example of mass flower:

- (A) Snapdragon (B) Liatris
- (C) Rose (D) Larkspur

04.Clinching is related to:

- (A) Freezing (B) Drying
- (C) Canning (D) Fermentation

05.In which Indian state rice is grown below sea level:

- (A) Tamil Nadu (B) Karnatka
- (C) Andhra pradesh (D) Kerla

06. Chilling sensitive apples are stored at:

- (A) -1 to 0° c
- (B) 3 to 5° c
- (C) 8 to 10° c
- (D) Above 10° c

07. Which one of the following is the best criterion for determining maturity of kinnow:

- (A) TSS/acid ratio
- (B) peel color
- (C) Acidity
- (D) Sugar content

08. Which crop has polyembryonic nature:

- (A) pomegranate
- (B) jamun
- (C) Konda
- (D) Dragon fruit

09. The process of separation of coarse/ rough rice into grain and chaff is called as:

- (A) Hulling
- (B) Harvesting
- (C) Threshing
- (D) processing

10. Which is the oldest garden of South East Asia?

- (A) Indian Botanic garden
- (B) Lal Bagh Garden
- (C) Lloyds Botanical Garden

(D) Brindavan Garden

11. Which is not the principle of landscaping :

(A) Rhythm (B) Unity

(C) Balance (D) Line

12. Alemow is the Rootstock of :

(A) plum (B) fig

(C) sapota (D) citrus

13. Which one is considered as ideal harvesting index for walnut:

(A) cracking of fruit peel (B) Brown colour of peel

(C) oil content (D) Both (a) and (b)

14. Which of the following is example of multiple fruit:

(A) Tree tomato (B) pomegranate

(C) pineapple (D) strawberry

15. Which of the following does not belong to the rosaceae:

(A) nectarine (B) strawberry

(C) walnut (D) Quince

16. Which is one of the most important biochemical changes

occurring during maturation and ripening of papaya:

- (A) substantial increase in sugar
- (B) sharp increase in vitamins
- (c ) Decline in pectin
- (D) increase in papain

17. Which fruit does not follow the typical respiration pattern of either climacteric or non climacteric fruits ?

- (A) Raspberries (B) Blue berries
- (C) kiwifruit (D) cranberries

18. Sporophytic system of incompatibility is found in:

- (A) cabbage (B) cucumber
- (C) Tomato (D) onion

19. Which fruit is richest source of vitamin B-6:

- (A) walnut (B) Banana
- (C) Apple (D) Blueberries

20. Which is the progenitor of watermelon:

- (A) *C. edulis* (B) *C. vulgaris*
- (C) *C. colosnthis* (D) *C. citriodes*

21. The first example for the use of bioagent for controlling postharvest diseases is:

- (A) *Candida oleophila*
- (B) *Pseudomonas syringae*
- (C) *Bacillus subtilis*
- (D) *Trichoderma harzianum*

22. Art of training into different shape is known as:

- (A) Training and pruning (B) Topiary
- (C) Bonsai (D) Shrubry

23. For *Zizyphus* propagation, which is the rootstock used:

- (A) *Z. mauritiana* (B) *Z. rotundifolia*
- (C) *Z. numularia* (D) *Z. rugosa*

24. Grenadine syrup is prepared from:

- (A) Pomegranate (B) Grapes
- (C) Guava (D) cherry

25. Hand pollination is most useful in which fruit:

- (A) Datepalm (B) Grape
- (C) Pineapple (D) Mango

26. National Horticulture Board (NHB) was established in:

(A) 1984 (B) 1990

(C) 1965 (D) 1978

27. *Grewia subinaqualis* is commercially propagated by:

(A) Cutting (B) Laying

(C) Budding (D) seed

28. India's share in cashewnut production of the world is around:

(A) 10% (B) 20%

(C) 30% (D) 40%

29. The support for banana in windy area is known as:

(A) propping (B) wrapping

(C) Earthing up (D) Desuckering

30. Fermented pear juice is called :

(A) vine (B) perry

(C) vinegar (D) cider

31. All the plums have a basic chromosome number:

(A) 8 (B) 12

(C) 22 (D) 33

32. Protandry is a problem in:

(A) Walnut (B) Grape

(C) Papaya (D) Banana

33. Self incompatibility leads to cross pollination:

(A) Cucumber (B) Carrot

(C) Cauliflower (D) Okra

34. Heterostyle is found in:

(A) French bean (B) Brinjal

(C) chilli (D) Tomato

35. The commercial method of clonal propagation of orchid is:

(A) Air layering (B) Cutting

(C) Grafting (D) Micro propagation

36. The condition where a flower cannot be fertilized by the pollen of same is called:

(A) Dichogamy (B) Homogamy

(C) Unisexual (D) Self incompatibility

37. Which of the following is most suitable for hanging basket :

(A) Portulaca (B) cosmos

(C) Rudbeckia (D) Rubber plant

38. Polypoidy can be induced by:

(A) Colchicine (B) Nitrous acid

(C) Methyl methane sulphonate (D) EMS

39. In honey bee the pollen basket is present in:

(A) Fore legs (B) Hind leg

(C) Both the leg (D) In between fore and hind leg

40. Hypobaric storage means:

(A) Low temperature storage

(B) High temperature storage

(C) High pressure storage

(D) Low pressure storage

41. A plant breeder wants to develop a disease resistant variety. What he should do first:

(A) Hybridization (B) Mutation

(C) Selection (D) Mass selection

42. Chinese gooseberry is popularly known as:



(A) Aonla (B) Kiwi fruit

(C) Karonda (D) Carambola

42. Although a deficiency of any one of the elements listed may result in chlorosis , only one of these elements is found in chlorophyll , which is it?

(A) chlorine (B) Iron

(C) Magnesium (D) Zinc

43. Which postharvest pathogen never infests citrus:

(A) *Penicillium expansum* (B) *P . digitatum*

(C) *P . italicum* (D) *Geotrichum candidum*

44. Cherry blossom is a popular variety of :

(A) Rose (B) Bougainvillea

(C) Gladiolus (D) Carnation

45. Wind velocity is measured in Knot , and 1 Knot is equal to:

(A) 0.58 km/hr (B) 1.85km/hr

(C) 0.54km/hr (D) 2.0 km/hr

46. Which of the following is a beverage crop ?:

(A) Tea (B) Arecanut

(C) Cashew (D) Black pepper

47. Which is mono-specific genus?

(A) Citrus (B) Eremocitrus

(c) Microcitrus ( D) Clymenia

48. Which is Na excluder rootstock of citrus? :

(A) C-35 (B) Trifoliate orange

(C) Chinato (D) Eremocitrus

49. Most important grain crop in the world :

(A) Wheat (B) Paddy

(C) Barley (D) Sorghum

50. CIMAP is located at:

(A) Lucknow U.P (B) Pantnagar U.K

(C) IARI New Delhi (D) Anand , Gujarat

51. Capacity of soil that resists sudden change in pH of soil is called :

(A) Buffer capacity

(B) Cation exchange capacity

(c) Anion exchange capacity

(D) Biological Oxygen

52. Organic group that are permanently bound to the enzyme is:

(A) Prosthetic group (B) Activator

(C) Coenzyme (D) Co activator

53 .A process where a single cell divides into two identical daughter cells is known as :

(A) Meiosis (B) Mitosis

(C) Cytokinesis (D) Polyploidisation

54. Stomata pore open when:

(A) Water from surrounding cells enter into guards cells

(B) Water from guard cells goes to surrounding cells

(c) The plants are in darl

( D) No movement of water occurs between guard cells and surrounding cells

55. Diversity is quite high in organisms which are produced through:

(A) Asexual reproduction (B) Budding

(C) Binary fusion (D) Sexual reproduction

56.The method of Lye peeling is through:

(A) Sulphuric Acid (B) Nitric Acid

(C) Caustic soda (D) Peelers

57.Sauerkraut is a product prepared by:

(A)Freezing (B) Dehydration

(C) Fermentation (D) Canning

58.The minimum total soluble solids content in jam should be ( as per FPO specification) :

(A) 62°B (B) 62° B

(C) 78°B (D) 68°B

59.Mango tip burn is due to the toxicity of :

(A) Iron (B) Sulphur dioxide

(C) Copper (D) Boron

60 .Which of following elements is common to all proteins and nucleic acid ?

(A) Suphur (B) Magnesium

(C) Nitrogen (D) Phosphorus

61. Chilling treatment for breaking dormancy is called:

(A) Scarification (B) Stratification

(C) Vernalization (D) Leaching

62. As compared to square system , hexagonal system accommodates:

(A) 5 % more plants (B) 10 % more plants

(C) 15 % more plants (D) 2 % more plants

63. Mangla is a variety of:

(A) Coffee (B) Tea

(C) Arecanut (D) Rubbers

64. Highest pineapple producer in India is:

(A) Assam (B) West Bengal

(C) Kerala (D) Meghalaya

65. Interstock used in apple between scion and rootstock:

(A) M-16 (B) M-23

(C) M-IX (D) M-27

66. Papaya is a:

(A) Syconus (B) Drupe

(C) Berry (D) Sorosis

67. Cavendish group of banana are:

- (A) Haploid (B) Diploid
- (C) Triploid (D) Tetraploid

68. Jackfruit belongs to the family:

- (A) Myrtaceae (B) Rhomnaceae
- (C) Moraceae (D) Rutaceae

69. Apple variety indigenous to Kashmir and popular in the region:

- (A) Rome Beauty (B) Red Delicious
- (C) Ambri (D) Baldwin

70. A short day fruit plant is :

- (A) Strawberry (B) Apple
- (C) Mango (D) Pineapple

71. Rose hips are source of:

- (A) Vitamin A (B) Vitamin B
- (C) Vitamin C (D) Vitamin K

72. The main fatty acid in cashew kernel is:

- (A) Oleic (B) Linoleic

(C) Stearic (D) Lignocetic

73. Coconut is ideal for multicropping as it utilize land are only:

(A) 25 % (B) 50 %

(C) 75 % (D) >75 %

74. Which gas is released from paddy fields:

(A) CH<sub>4</sub> (B) H<sub>2</sub>S

(C) NH<sub>3</sub> (D) CO<sub>2</sub>

75. Totipotency In plant is present in:

(A) Phloem (B) Cork

(C) Cambium (D) Meristem

76. Free living bacteria involved in nitrogen fixation:

(A) Rhizobium (B) Azotobacter

(C) Anabaena (D) Azospirillum

77. The cultivation of crop from the re-growth of stubbles of crop after harvest is called :

(A) Arrowing (B) Reaping

(C) Ratooning (D) Seasoning

78. Goss Michel banana has the genome constitution:

(A) AAA (B) AA

(C) AB (D) AAB

79. Which is a gynodioecious papaya:

(A) Pusa Dwarf (B) CO 1

(C) CO 2 (D) Solo

80. D- leaf is associated with:

(A) Pipeapple (B) Custard apple

(C) Banana (D) Strawberry

81. Botanical name of golden rod is:

(A) *Haemanthus multiflorus*

(B) *Solidago canadensis*

(C) *Iberis amara*

(D) *Thunbergia alata*

82. Corm is an example of a :

(A) Modified stem (B) Modified root

(C) Modified leaf (D) Modified scales

83. Brinjal variety Arka Anand is resistant to:

(A) Fusarium wilt (B) Bacteria wilt



(C) Damping off (D) Phomopsis blight

84. Vanilla belongs to which family:

(A) Amaryllidaceae (B) Cruciferae

(C) Orchidaceae (D) Asteraceae

85. The ideal pH of soil for tea cultivation is:

(A) 4 to 5 (B) 6 to 7

(C) 7 to 8 (D) 8 to 9

86. Pusa Bedana is a seedless variety of:

(A) Musk melon (B) Water melon

(C) Long melon (D) Round melon

87. Cluster bean belongs to the genus:

(A) Phaseolus (B) Dolichos

(C) Cyamopsis (D) Pisum

88. Seed rate of ginger is:

(A) 5-6 q/ha (B) 9-10q/ha

(C) 18-22 q/ha (D) 35-40 q/ha

89. Leek is botanically known as:

(A) Allium fistulosum

(B) *Allium porrum*

(C) *Allium schoenoprasum*

90. Carnation belongs to the family:

(A) Carophyllaceae (B) Oleaceae

(C) Comositae (D) Rosaceae

91. Stenospermocarpy is related to:

(A) Cherry (B) Aonla

(C) Guava (D) Grapes

92. Cooking bananas are known as :

(A) Hill banana (B) Dwarf banana

(C) Poovan banana (D) Plantains

93. Which of the following sugar is sweetest in fruits :

(A) Glucose (B) fructose

(C) Galactose (D) Sucrose

94. After bruising of leaves and flowers, which climber emits a garlic-like smell ?

(A) *Quisqualis indica*

(B) *Antigonon leptopus*

(C) Allamanda catthartica

(D) Adenocalymna alliaceum

95. Which of the following is fragrant flowering tree ?

(A) Delonix regia (B) Mimosa pudica

(C) Cassia fistula (D) Cassia siamea

96. Agnihotri is a variety of:

(A) Marigold (B) Tuberose

(C) Anthurium (D) Alstroemeria

97. The fruits which can be ripened artificially after harvesting is known as:

(A) Perishable fruits

(B) Climacteric fruits

(C) Non-climacteric fruits

(D) Table fruits

98. Cashew kernel skin is known as :

(A) Aril (B) Endocarp

(C) Exocarp (D) Testa

99. A polyembryonic variety of mango :

(A) Olour (B) Mallika

(C) Neelam (D) Totapuri

100. Multi-storey cropping system is very common in:

(A) Temperate fruits (B) Sub-tropical fruits

(C) Tropical fruits (D) Plantation crops

101. The family to which coffee belongs :

(A) Euphorbiaceae (B) Rubiaceae

(C) Aricaceae (D) Camelliaceae

102. The seed of cabbage can only be produced commercially under:

(A) Tropical climate (B) Temperate climate

(C) Central Indian plains (D) Sub-tropical climate

103. Red flesh pumpkins are rich source of :

(A) Vitamin C (B) Protein

(C) Vitamin A (D) Acids

104. Chilli hybrid – 1 was developed at :

(A) IIHR- Bangalore (B) PAU-Ludhiana

(C) IARI – New Delhi (D) HAU-Hisar

105. Shot – berry is due to deficiency of :

(A) Zn (B) Cu

(C) B (D) Ca

106. Specific gravity of mango at harvesting should be around:

(A) 1 (B) 1.5

(C) 2.0 (D) 2.5

107. Water use efficiency is the ration of ?

(A) Yield/ET (B) ET/ Yield

(C) ET/ DM (D) PET/ Yield

108. Hetrobeltois is estimated over the :

(A) Popular variety (B) Mid parent

(C) Better parent (D) Popular hybrid

109. The most sensitive phase of cereals for water stress is :

(A) Germination (B) Tillering

(C) Flowering (D) Panicle initiation

110. Which of the following elements is required for synthesis of tryptophan , as of Auxin- IAA :

(A) Iron (B) Zinc

(C) Manganese (D) Copper

111. Sweet potato belongs to the family :

(A) Chenopodiaceae (B) Convolvulaceae

(C) Fabaceae (D) compositae

112. Orchid seeds are devoid of :

(A) Cotyledon (B) Embryo

(C) Endosperm (D) Seed coat

113. Which of the following vegetable is autogamous ?

(A) Palak (B) Onion

(C) Radish (D) Tomato

114. Tea mosquito is a serious pest of :

(A) Mango (B) Apple

(C) Coconut (D) Banana

115. Scald is a storage disorder in:

(A) Mango (B) Apple

(C) Pomegrante (D) Pear

116. Which of the following is not a dioecious vegetables ?

(A) Spine gourd (B) pointed gourd

(C) Ash gourd (D) Asparagus

117. Which of the following is not a scented flowering tree?

(A) *Michelia champaca* (B) *Millingtonia hortensis*

(C) *Magnolia grandiflora* (D) *Spathodia campanulata*

118. Sreekara is variety of :

(A) Ginger (B) Turmeric

(C) Black pepper (D) Cardamom

119. A vegetable highly tolerant to soil acidity :

(A) Okra (B) Cauliflower

(C) Asparagus (D) Potato

120. Rajendra Swathi is variety of

(A) Coriander (B) Fenugreek

(C) Black pepper (D) Cardamom

121. Which of the following is a foliage climber :

(A) *Pilea microphylla* (B) *Monstera deliciosa*

(C) *Tecoma jasminoides* (D) *Pteris ensiformis*

122. Which of the following is not a concentrated organic manure ?

(A) Ground nut cake (B) Bone meal

(C) Vermi compost (D) Fish meal

123. Mobility in the garden is created by

(A) Tree of different size

(B) Evergreen trees

(C) Deciduous trees

(D) Tree of different forms

124. All the species of capsicum are diploid with chromosome number :

(A)  $2n=2x=24$  (B)  $2n=2x=48$

(C)  $2n=2x=14$  (D)  $2n=2x=34$

125. F1 hybrid seed production in marigold is taken up by using :

(A) Male sterility (B) Self incompatibility

(C) Both A and B (D) Self compatibility

126. Seedlessness in grape is induced by foliar spray of the following PGR :

(A) NAA (B) GA3

(C) BA (D) IAA