

**SUBJECT MATTER TEST FOR RECRUITMENT FOR THE POST OF
ASST. PROFESSOR OF HORTICULTURE & SMS (HORTICULTURE)**

1. T test given by.
 - A. W S Gosset
 - B. Spearman
 - C. Karl Pearson
 - D. Fisher
2. Total number of Agri-Export Zones (AEZs) present in India are.
 - A. 30
 - B. 60
 - C. 90
 - D. 120
3. In general the optimum PH value for jelly is.
 - A. 3.2
 - B. 4.2
 - C. 4.5
 - D. 5
4. Which crop is commercial source of levulose_____.
 - A. Queensland arrow root
 - B. West Indian arrow root
 - C. Jerusalem artichoke
 - D. Colocasia
5. Vegetable production for local consumption is.
 - A. Market Gardening
 - B. Home Gardening
 - C. Truck gardening
 - D. Local gardening
6. Transverse cotyledon cracking is a serious disorder of _____.
 - A. Broad Bean
 - B. Lima bean
 - C. French bean
 - D. Pea
7. Flower of grapes is technically called as.
 - A. Umbel
 - B. Racemose
 - C. Clyptra
 - D. Corymb
8. *Triticum aestivum* is a.
 - A. Hexaploid
 - B. Diploid
 - C. Diploid
 - D. Euploid
9. The pollination in Oil palm is carried out by.
 - A. *Pentalonia nigronervosa*
 - B. *Elaiedobius kamerunicus*
 - C. *Oecophylla smaragdina*
 - D. *Musca domestica*
10. Type of male sterility used in Cole crops for hybrid seed production.
 - A. CMS
 - B. CGMS
 - C. GMS
 - D. PCGMS
11. *Ficus lyrata* is the botanical name of.
 - A. Banyan
 - B. Banzo tree
 - C. Rubber plant
 - D. Rubber plant

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12. Modi Apple which is introduced from Italy is cross between.
- Gala × Liberty
 - Liberty × Baldwin
 - Liberty × Gala
 - Baldwin × Liberty
13. Celery and lettuce at high temperature become.
- Photodormant
 - Thermodormant
 - Ecodormant
 - Non-dormant
14. Citrange citrus is the intergeneric hybrid, with its parents.
- Poncirus* × Sweet orange
 - Sweet orange × Mandarins
 - Poncirus* × Mandarins
 - Mandarins × Sweet orange
15. Who considered as wizard of horticulture.
- Liberty H Baily
 - Thomas A Knight
 - N E Bourlag
 - Luther Burbank
16. Pruning time for *Grewia subinqualis* in South India.
- Apr – May
 - Aug – Sep
 - Oct – Nov
 - Dec –Jan
17. Skiffing is practiced in which of the following plantation crops.
- Coffee
 - Tea
 - Cocoa
 - Cashewnut
18. Which of the following trees changes the colour of foliage during winter?
- Albizia lebbek*
 - Delonix regia*
 - Sapium sebeferum*
 - Thuja orientalis*
19. Positive photoblastic seeds observed in.
- Leek
 - Lettuce
 - Palak
 - Beetle leaf
20. Main constraint/s in commercial cultivation of medicinal plants is.
- Lack of planting material
 - Lack of market
 - Lack of knowledge
 - All the three
21. International Registration Authority of Bougainvillea is located at.
- NBRI, Lucknow
 - IARI, New Delhi
 - IIHR, Bengaluru
 - DFR, Pune
22. Non-reducing sugar is
- Fructose
 - Glucose
 - Mannose
 - Sucrose
23. Diploid species of potato
- Solanum tuberosum*
 - Solanum acaule*
 - Solanum phureja*
 - Solanum curtilobum*

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24. Founder of Indian Botanic Garden of Calcutta.
A. Edwin Lutyen
B. Robert Kid
C. Le Notre
D. Lancelot Hogber
25. Silvering disorder may be caused due to the exposure of plants to.
A. Low Temperature
B. High Temperature
C. High Humidity
D. Low Humidity
26. Most common tree used for shade purpose in coffee is.
A. Silver oak
B. Popular
C. Eucalyptus
D. All of these
27. Which of the following is a Free Flower arrangement.
A. Moribana
B. Jiyubana
C. Morimona
D. Zeneibana
28. Laccha and Mogra are the grades of.
A. Vanilla
B. Clove
C. Cinnamon
D. Saffron
29. Which of the following vegetables cannot be grown as an off-season vegetable crop.
A. Tomato
B. Potato
C. Chillies
D. Brinjal
30. When designing an asymmetrical floral arrangement, the floral designer must consider which of the following principles of design
A. Proportion
B. Balance
C. Focal point
D. All the three
31. Dehydration temperature for grapes is.
A. 45-55 °C
B. 67-71 °C
C. 88-90 °C
D. 100-116 °C
32. Khasi Mandarin got GI tag from which of the following states?
A. Maharashtra
B. Tripura
C. Assam
D. Meghalaya
33. Transgraft has.
A. Transgenic scion
B. Transgenic rootstock
C. Transgenic scion & stock
D. No transgenic part

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34. Cardamom variety tolerant to Katte disease.
A. IISR-Avinash
B. IISR-Suvasini
C. IISR-Vijetha
D. IISR-Thevam
35. TSS of Fruit Crush is.
A. 35
B. 45
C. 55
D. 65
36. Floribunda rose with high fragrance released from ICAR-IARI is.
A. Pusa Mohak
B. Pusa Alpana
C. Pusa Guldasta
D. Pusa Mehta
37. Which gas is evolved during respiration?
A. O₂
B. CO₂
C. N₂
D. H₂
38. Fruit juices are dried using.
A. Cabinet dryer
B. Drum drier
C. Tray drier
D. Solar drier
39. Wind breaks are planted in orchards towards.
A. South-East
B. South-West
C. North-East
D. North-West
40. Alcohol content in Cider is
A. 2 – 4%
B. 4 – 6%
C. 6 – 8%
D. 8 -10%
41. Fruit Product Order (FPO) was passed in
A. 1945
B. 1950
C. 1955
D. 1975
42. Coriander contains volatile oil content of
A. 0.8%
B. 1.8%
C. 2.8%
D. 3.8%
43. Arka Swadista variety of Onion was released bybreeding method.
A. Selection
B. Heterosis
C. Pedigree
D. Mutation
44. Inflorescence of Drumstick is.
A. Panicle
B. Spadix
C. Corymb
D. Catkins

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45. Cloudiness of pickle is due to
A. Use of Weak Brine
B. Inferior quality of Vinegar
C. Growth of wild yeast
D. Presence of Iron in Brine
46. Phule Pride is variety of
A. Mango
B. Pomegranate
C. Banana
D. Grapes
47. Which one is semi-aquatic perennial plant?
A. Indian Basil
B. Sweet Flag
C. Rosemary
D. None of the three
48. Scientist taken keen interest to establish Botanical Survey of India (BSI) is.
A. Charles Gray
B. J. D. Hooker
C. Larson
D. A. Mukopadhyay
49. The quickest method of carrot peeling is.
A. Flame peeling
B. Lye peeling
C. Mechanical peeling
D. Steam peeling
50. The headquarter of ISTA (International Seed Testing Association) located at.
A. Switzerland
B. Holland
C. Newzealand
D. Finland
51. Cool season grass among the following is.
A. Bermuda grass
B. Bahia grass
C. St. Augustine grass
D. Kentucky blue grass
52. The Scheme that has been launched as an intervention to protect the growers of fruits and vegetables from making distress sale due to lockdown and reduce the post-harvest losses was.
A. Pradhan Mantri Fasal Bima Yojana (PMFBY)
B. e-NAM
C. Operation Green
D. None of the three
53. Bract Wilting is the physiological disorder of
A. Sweet Pea
B. Asparagus
C. Globe Artichoke
D. Rhubarb
54. Seed of strawberry fruit is called as
A. Achene
B. Pip
C. Viable seed
D. Non-viable seed

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55. Pomegranate (*Punica granatum*) has been placed recently under the family.
A. Punicaceae
B. Lythraceae
C. Myrtaceae
D. Myrtaceae
56. Leafy sepals used as ornamental plant
A. Bougainvillea
B. Camelia
C. Mussandra
D. None of the three
57. Zinc is essential for synthesis of
A. Auxin
B. GA
C. Cytokinin
D. Ethylene
58. Typical example of Dehiscent type of fruit?
A. Pecanut
B. Chestnut
C. Plum
D. None of these
59. The relative proportion of major nutrients applied to banana crop is
A. N>P>K
B. P>K>N
C. K>N>P
D. P>N>K
60. Growth regulator used for intensive tapping in rubber is
A. GA₃
B. Ethrel
C. IAA
D. IBA
61. If the fruits are coated with wax the rate of water loss can be reduced upto.
A. 10-20 %
B. 20-30%
C. 30-50%
D. 50-70%
62. The fruit found promising in curing of cancer is
A. Sour sop
B. Guava
C. Dragon fruit
D. Opuntia fruit
63. Nutritive index of Apple _____
A. 11
B. 9
C. 8
D. 6
64. Makhana belongs to family
A. Sapotaceae
B. Malvaceae
C. Nymphaeaceae
D. Moraceae

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65. Thornless variety of Rose developed from IHBT?
A. Jwala
B. Himalayan Wonder
C. Nishkant
D. All
66. SLOH is the hybrid cross between.
A. Peach × Almond
B. Peach × Apricot
C. Plum × Apricot
D. Almond × Peach
67. Heat requirement for Date
A. 1000 – 2000 HU
B. 2000 – 3000 HU
C. 3000 – 5000 HU
D. 6000 – 7000 HU
68. Which species of custard apple is useful in breeding for drought tolerance & coloured flesh
A. *A. glabra*
B. *A. atemoya*
C. *A. reticulate*
D. *A. purpurea*
69. Protected structure in which all the environmental factors including direction of sunlight is controlled
A. Greenhouse
B. Phytotron
C. Lathhouse
D. All
70. The Chimera which is highly unstable
A. Periclinal
B. Sectorial
C. Semiclinal
D. Mericlinal
71. Kera-Shankara is cross between
A. WCT × COD
B. MYD × WCT
C. COD × WCT
D. ECT × MYD
72. Root type of Turnip?
A. Tuberous
B. Fusiform
C. Conical
D. Napiform
73. De-blossoming is a practice to increase the vegetative growth in
A. Isabgol
B. Senna
C. Datura
D. Ashwagandha
74. Stamens and pistils are partially or completely united in orchids which is called as
A. Labellum
B. Rostallum
C. Gynostemium
D. Keikies

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75. HACCP concept was developed in the year _____ to ensure safety of food products.
A. 1945
B. 1955
C. 1960
D. 1954
76. *Cymbopogon flexuosus* is known as.
A. East Indian Lemongrass
B. West Indian Lemongrass
C. North Indian lemongrass
D. South Indian Lemongrass
77. Which of the following statements is not correct for cucurbits?
A. Maleness in fruit can be induced by application of high concentration of GA3
B. Femaleness in fruit can be induced by application of MH
C. Short day and low temperature causes Males
D. Root formation in cutting can be increased by application of IBA
78. The adoption of High Yielding Variety Programme in Indian Agriculture started in
A. 1964
B. 1965
C. 1966
D. 1967
79. Central Soil Salinity Research Institute is located at
A. Karnal
B. Bihar
C. Dehradun
D. . Jodhpur
80. The crop/s most suitable for vacuum cooling are.
A. Tomato
B. Capsicum
C. Leafy Vegetable
D. All of these
81. Deep rooted vegetables require
A. Less frequent irrigation
B. More water at each irrigation
C. Both a & b
D. No irrigation
82. Which medicinal plant is used in controlling blood cancer?
A. *Rauwolfia serpentine*
B. *Catharanthus roseus*
C. *Withania somnifera*
D. None of the three
83. Blue colour tag is issued for
A. Nucleus seed
B. Foundation seed
C. TL seed
D. Certified seed

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84. For good pollination in papaya orchard it is necessary that male plants should be.
- A. 5-10%
 - B. 15-20%
 - C. 20-25%
 - D. 25-30%
85. The number of layers present in a tetra pack pouch is
- A. 4
 - B. 6
 - C. 8
 - D. 10
86. The technologies for probiotic fruit drinks is being developed by.
- A. CFTRI
 - B. DFRL
 - C. CIPHET
 - D. IIHR
87. Pusa Nanha, dwarf variety of Papaya is developed through.
- A. Hybridization
 - B. Mutation
 - C. Selection
 - D. Heterosis
88. Pollination in beetroot is by.
- A. Insect
 - B. Water
 - C. Wind
 - D. All the above
89. Homeostasis operates in the resistance mechanism known as.
- A. Active resistance
 - B. Field resistance
 - C. Horizontal resistance
 - D. Vertical resistance
90. Among the following scientist known as Father of Golden Revolution in India?
- A. Varghese Kurien
 - B. Sam Pitroda
 - C. Durgesh Patel
 - D. Nirpakh Tutej
91. Potato moth came into India from
- A. Italy
 - B. Ireland
 - C. USA
 - D. New Zealand
92. Ice Box variety of watermelon is
- A. Arka Aishwarya
 - B. Arka Madhu
 - C. Durgapur Metha
 - D. Durgapur Kesar
93. Hillocks are made to create natural mountains scenery is the characteristic feature of.
- A. Persian style
 - B. Mughal style
 - C. Japanese style
 - D. Italian style

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94. Fruit found in desert cold arid region.

- A. Apple
- B. Peach
- C. Pear
- D. Apricot

95. Who is the present DG of Indian Council of Agricultural Research?

- A. Dr Trilochan Mohapatra
- B. Dr Himanshu Pathak
- C. Dr A K Singh
- D. Dr. K. Alagusundaram

96. A walk in tunnels can withstand wind upto.

- A. 80km/hr
- B. 100km/hr
- C. 120km/hr
- D. 140km/hr

97. Which year declared as International year of fruits and vegetables by UN Geneva Assembly?

- A. 2020
- B. 2021
- C. 2022
- D. 2023

98. Choose the correct answer from the below statements

Assertion (A): Irradiation is a non-thermal processing technique

Reason (R): Irradiation reduces spoilage bacteria, smut and parasites and in certain fruits and vegetables it inhibits sprouting and delays ripening

- A. Both A and R are individually true and R is the correct explanation of A
- B. Both A and R are individually true and R is the not correct explanation of A
- C. A is true but R is false
- D. A is false but R is true

99. Match the following:

a. Citrumquat	I. Grape fruit X Poncirus
b. Citrangequet	II. Poncirus X Sour Orange
c. Citradia	III. Poncirus X Kumquat
d. Citrumelo	IV. Cirange X Kumquat

- A. a-IV, b-III, c-II, d-I
- B. a-II, b-I, c-III, d-IV
- C. a-III, b-I, c-IV, d-II
- D. a-III, b-IV, c-II, d-I

100. Match the following:

i. Dog flower	a. <i>Amaryllis</i>
ii. Spider lily	b. <i>Acroclinum</i>
iii. Peace lily	c. <i>Antirrhinum</i>
iv. Paper flower	d. <i>Canna indica</i>
v. Arrow Root	e. <i>Spathiphyllum</i>

- A. i- e, ii-c, iii-a, iv-b, v-d
- B. i-c, ii-a, iii-e, iv-b, v-d
- C. i-c, ii-e, iii-a, iv-b, v-d
- D. i-e, ii-a, iii-b, iv-c, v-d