

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO.

2019

TEST BOOKLET

TEST BOOKLET SERIES

Time allowed : $1\frac{1}{2}$ hours

Full marks : 100

Answer *all* the questions.

Questions are of equal value.



Serial No.445

Roll No.:

Signature of the Candidate:

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions:

1. This booklet consists of 12 pages including this front page. **Verify the Page Nos. and Test Booklet series on each page and bring at once to the Invigilator's notice any discrepancy.**
2. Answers will have to be given in the Special Answer-Sheets supplied for the purpose.
3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. **Do not fold the Answer-Sheet as this will result in error in your marks.**
4. All questions are of multiple-choice answer-type. You will find **four** probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the oval corresponding to the letter of the selected answer in the Answer-Sheet with **Black Ball Point Pen** as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
5. One and only one circle is to be fully blackened for answer. Any spot in any other circle (multiple circle) or in wrong circle will be considered as wrong answer.
6. **There will be negative marking of $\frac{1}{3}$ mark for each wrong answer.**
7. **The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.**

1. Yellow flowering avenue tree is
 - (A) *Delonix regia*
 - (B) *Cassia alata*
 - (C) *Cassia fistula*
 - (D) *Lagerstroemia*

2. In which of the following process, enzyme is inactivated?
 - (A) Canning
 - (B) Asepsis
 - (C) Blanching
 - (D) Sulphitation

3. Leading fruit crop in India with respect to production is
 - (A) Mango
 - (B) Banana
 - (C) Citrus
 - (D) Papaya

4. Fig is
 - (A) Dioecious
 - (B) Monoecious
 - (C) Gynodioecious
 - (D) Andromonoecious

5. French marigold is
 - (A) Triploid
 - (B) Diploid
 - (C) Tetraploid
 - (D) Aneuploid

6. Which of the following species of orchid is temperate?
 - (A) *Dendrobium*
 - (B) *Vanda*
 - (C) *Cymbidium*
 - (D) *Phalaenopsis*

7. Vivipary is observed in _____
 - (A) Guava
 - (B) Jackfruit
 - (C) Ber
 - (D) Beal

8. Which of the following state is the largest producer of tea in India?
 - (A) Assam
 - (B) West Bengal
 - (C) Karnataka
 - (D) Tamil Nadu

9. Which Mango variety is suitable for high density planting?
 - (A) Sindhu
 - (B) Amrapali
 - (C) Mallika
 - (D) Ambika

10. Organism *Pseudomonas straita* is used as
 - (A) Saprophytes biofertilizer
 - (B) Phosphorous solubilizers
 - (C) Legume inoculants
 - (D) Endotrophic mycorrhizae

11. Micro-propagation is common in multiplication of _____.
- (A) Banana
 - (B) Orchids
 - (C) Strawberry
 - (D) All of the above
12. Seedless variety of Mango-
- (A) Mallika
 - (B) Safari
 - (C) Ratna
 - (D) Sindhu
13. TSS range for mature watermelon is
- (A) 8-10° Brix
 - (B) 10-12° Brix
 - (C) 13-15° Brix
 - (D) 16-18° Brix
14. Which one of this vegetable is a deep rooted crop?
- (A) Onion
 - (B) Potato
 - (C) Carrot
 - (D) Sweet potato
15. Bent neck is a disorder of
- (A) Carnation
 - (B) Rose
 - (C) Chrysanthemum
 - (D) Gladiolus
16. Which of the following is commercially propagated by bulbs?
- (A) Gladiolus
 - (B) Lily
 - (C) Carnation
 - (D) Rose
17. Indigenous cultivar of arecanut is
- (A) Mangla
 - (B) Sumangla
 - (C) Sreemangala
 - (D) Mohitnagar
18. Powdery mildew disease is a serious problem of which of the following crops?
- (A) Onion
 - (B) Okra
 - (C) Pea
 - (D) Chilli
19. Annual flower suited for planting in shade is
- (A) Anthurium
 - (B) Stock
 - (C) Cineraria
 - (D) Nasturtium
20. Most commonly used vegetative propagation method in rose is
- (A) Layering
 - (B) Cutting
 - (C) Budding
 - (D) Tissue culture

21. Yellowing of lawn grass indicates deficiency of which nutrients?
- (A) Nitrogen
 - (B) Phosphorous
 - (C) Potassium
 - (D) Calcium
22. "Pusa Nanha" dwarf variety of Papaya is developed through _____
- (A) hybridization
 - (B) mutation
 - (C) selection
 - (D) heterosis
23. Which is not a garden style?
- (A) English
 - (B) American
 - (C) French
 - (D) Moghul
24. Example of stem vegetable is
- (A) Carrot
 - (B) Beet
 - (C) Broccoli
 - (D) Knol-khol
25. Cultivated strawberry is _____
- (A) Diploid
 - (B) Octaploid
 - (C) Hexaploid
 - (D) Triploid
26. Magnesium oxide is a
- (A) Oxygen absorber
 - (B) Carbon dioxide absorber
 - (C) Ethylene absorbers
 - (D) Both oxygen and carbon dioxide absorbers
27. In squash minimum per cent of total soluble solids should be
- (A) 40
 - (B) 50
 - (C) 60
 - (D) 70
28. Litchi is stored at low temperature at relative humidity of
- (A) 80%
 - (B) 85%
 - (C) 90%
 - (D) 95%
29. Minimum isolation distance of cabbage for foundation seed production is
- (A) 600 m
 - (B) 1000 m
 - (C) 1600 m
 - (D) 2000 m
30. Which one of these is not the characteristics features of flesh translucency of pineapple?
- (A) Increases sensitivity to mechanical injury
 - (B) Low shell colour and flesh pigment
 - (C) Lower pH
 - (D) Lower acids

31. Development of embryo without fertilization is known as _____.
- (A) Parthenocarpy
 - (B) Parthenogenesis
 - (C) Apomixis
 - (D) None of the above
32. Which of the following is categorized as edge plant?
- (A) Euphorbia
 - (B) Opuntia
 - (C) Justicia
 - (D) Agave
33. For longer storage life of Cucumber, the temperature should be kept at
- (A) 5°C
 - (B) 10°C
 - (C) 20°C
 - (D) 25°C
34. Sugar acts as a preservative
- (A) by inhibiting enzymatic browning.
 - (B) as true poison for microorganism.
 - (C) by osmosis.
 - (D) by diffusion.
35. Fruit set in brinjal is usually in the flower having
- (A) medium style
 - (B) short style
 - (C) long and medium style
 - (D) short and medium style
36. Sweet corn is
- (A) monoecious annual
 - (B) dioecious annual
 - (C) hermaphrodite annual
 - (D) monoecious biennial
37. Exhausting is done at a temperature of
- (A) 67°C
 - (B) 79°C
 - (C) 89°C
 - (D) 100°C
38. French bean is a native of
- (A) Mediterranean region
 - (B) Asia
 - (C) South and Central America
 - (D) Northern Africa
39. Ganesh is a variety of which of the following fruit crop?
- (A) Pomegranate
 - (B) Custard
 - (C) Ber
 - (D) Aonla
40. Caprification is done in _____.
- (A) Fig
 - (B) Ber
 - (C) Avacado
 - (D) Date palm

41. *Azospirillum fixes*
(A) N in soil.
(B) P in soil.
(C) N and P in soil.
(D) N, P and K in soil.
42. Tetrazolium test
(A) differentiate between dormant and non-dormant seed.
(B) distinguish between normal and abnormal seedlings.
(C) determines seed viability.
(D) determine seed germination.
43. Turnip belongs to genus
(A) Beta
(B) Brassica
(C) Raphanus
(D) *Daucus*
44. In Papaya papain contains _____ protein.
(A) 65.2%
(B) 82.2%
(C) 72.2%
(D) 55.5%
45. Triploid cultivar of tea is
(A) Jayaram
(B) Athrey
(C) Golconda
(D) Sundaram
46. Root of which of the following crop is used for oil extraction?
(A) Sweet pea
(B) Iris
(C) Gardenia
(D) Rose
47. Pre harvest application of which growth substances in citrus retards chlorophyll disappearance?
(A) Ethylene
(B) Benzylaminopurine
(C) Gibberellic acid
(D) Maleic hydrazide
48. Open centre system of training is followed in
(A) Pear
(B) Plum
(C) Apple
(D) Peach
49. Theobromin in cocoa is extracted from
(A) Bark
(B) Fruit
(C) Root
(D) Seed
50. Nitrogen content of fruit is due to
(A) protein and amino acid
(B) amino acids and ammonium
(C) protein and organic acids
(D) proteins and nitrate

51. Which growth regulator is used to reduce period of chilling requirement?
- (A) NAA
 - (B) IBA
 - (C) GA_3
 - (D) Cytokinin
52. Kalipatti is famous varieties of _____
- (A) Ber
 - (B) Mango
 - (C) Sapota
 - (D) Litchi
53. Which is a heavy climber?
- (A) *Antigonon leptopus*
 - (B) *Lonicera japonica*
 - (C) *Petrea volubilis*
 - (D) *Clitoria ternatea*
54. Disease free plants in micro-propagation can be obtained through
- (A) Meristem culture
 - (B) Anther culture
 - (C) Embryo culture
 - (D) Cell culture
55. Single seeded berry is
- (A) Arecanut
 - (B) Coconut
 - (C) Cashew
 - (D) Coffee
56. In which of the following vegetable Vitamin-C is maximum?
- (A) Chilli
 - (B) Coriander leaves
 - (C) Drumstick leaves
 - (D) Bathua leaves
57. Which of the following chemical is used for polyploidy breeding?
- (A) MH
 - (B) CCC
 - (C) NAA
 - (D) Colchicine
58. Which one of the following is a climacteric fruit?
- (A) Fig
 - (B) Citrus
 - (C) Grape
 - (D) Ber
59. Whip tail in cauliflower is due to deficiency of
- (A) Boron
 - (B) Mg
 - (C) Mn
 - (D) Mo
60. Chromosome number of Mango—
- (A) $2x = 40$
 - (B) $4x = 40$
 - (C) $3x = 40$
 - (D) $x = 40$

61. Vengurla-3 is a variety of the following plantation crop:

- (A) Oilpalm
- (B) Arecanut
- (C) Coconut
- (D) Cashewnut

62. Which of the causes are not a factor of weeping jelly?

- (A) Excess of acid
- (B) Low concentration of sugar
- (C) Use of non-clarified juice
- (D) Insufficient pectin

63. Which of this is a multiplier onion variety?

- (A) Early Grano
- (B) Arka Niketan
- (C) Agrifound Red
- (D) N-53

64. Seeds are sown immediately after extraction in which fruit?

- (A) Citrus
- (B) Ber
- (C) Mango
- (D) Jamun

65. Ready- to- serve fruit beverage contains at least

- (A) 10% fruit juice.
- (B) 15% fruit juice.
- (C) 20% fruit juice.
- (D) 25% fruit juice.

66. Edible part of jackfruit is

- (A) Rachis
- (B) Receptacle
- (C) Perianth
- (D) Pericarp

67. Which enzyme is used for clarification of fruit juice?

- (A) Oxidase
- (B) Polygalacturonase
- (C) Phelonase
- (D) Pectinol

68. Which of the following is a rapid pre-cooling method?

- (A) Forced air cooling
- (B) Hydro cooling
- (C) Vaccum cooling
- (D) Evaporative cooling

69. Rose Scented is variety of

- (A) Guava
- (B) Strawberry
- (C) Litchi
- (D) Pomegranate

70. Essential oil is extracted from

- (A) Citronella
- (B) Khus
- (C) Jasmine
- (D) All of the above

71. Pineapple plant generally flowers when the plants attain
- (A) 20 to 30 functional leaves.
 - (B) 30 to 40 functional leaves.
 - (C) 40 to 50 functional leaves.
 - (D) 50 to 60 functional leaves.
72. Seed rate of tomato is
- (A) 200 to 300 g/ha
 - (B) 400 to 500 g/ha
 - (C) 600 to 700 g/ha
 - (D) 800 to 1000 g/ha
73. Major cause of mango fruit drop is:
- (A) Lack of pollination
 - (B) Low stigmatic receptivity
 - (C) Defective perfect flower
 - (D) All of the above
74. Tea plantation requires a rainfall of about
- (A) 25-50cm
 - (B) 50-100cm
 - (C) 100-150cm
 - (D) 150-250cm
75. Puffy fruit in tomato is caused by due to
- (A) Viral attack
 - (B) Bacterial attack
 - (C) Physiological disorder
 - (D) None of the above
76. Storage temperature and RH of ginger is
- (A) 0°C and 65%
 - (B) 13°C and 65%
 - (C) 15°C and 85%
 - (D) 13°C and 85%
77. Bitterpit in Apple is due to the deficiency of _____
- (A) Ca
 - (B) Zn
 - (C) Mn
 - (D) K
78. Modified stem of banana is _____
- (A) sword suckers
 - (B) rhizomes
 - (C) water suckers
 - (D) corm
79. Which of the following state is the largest producer of rubber?
- (A) Tamil Nadu
 - (B) Kerala
 - (C) Karnataka
 - (D) Andhra Pradesh
80. Tongue grafting is a modified form of _____
- (A) Saddle grafting
 - (B) Whip grafting
 - (C) Inarching
 - (D) None of the above

81. Pusa Majestic is a variety of _____
(A) Papaya
(B) Gauva
(C) Mango
(D) Citrus
82. Seedless watermelon variety is
(A) Pusa Bedana
(B) Tetra-2
(C) Sugar Baby
(D) PKM-1
83. In tomato sauce minimum per cent of total soluble solids should be
(A) 12
(B) 18
(C) 24
(D) 30
84. Which of the following is a non-climacteric fruit?
(A) Litchi
(B) Mango
(C) Apple
(D) Banana
85. Which type of apomixes is found in apple?
(A) Recurrent
(B) Non-recurrent
(C) Nucellar polyembryony
(D) Vegetative apomixis
86. Bush type lablab bean is
(A) Arka Komal
(B) JDL-79
(C) Arka Jay
(D) Pusa Early Prolific
87. Which chemical is used for de-greening of fruit?
(A) IBA
(B) Cytokinin
(C) Gibberellic acid
(D) Ethylene
88. Which of the statement is not true?
(A) Amaranth is hermaphrodite, annual.
(B) Asparagus is dioecious, perennial.
(C) Brussel sprout is hermaphrodite, biennial.
(D) Carrot is hermaphrodite, annual.
89. Which is not an antibiotic preservative?
(A) Tylosin
(B) Subtilin
(C) Nisin
(D) Pimaricin
90. "Fruit of the 21st century" is called _____
(A) Jamun
(B) Ber
(C) Aonla
(D) Bael

91. Carnation species used in cultivation are
(A) Diploids
(B) Tetraploids
(C) Hexaploids
(D) Octaploids
92. The fruit of banana is botanically called
(A) Pepo
(B) Berry
(C) Pome
(D) Drupe
93. In which of the following medicinal plant root is used for medicinal purpose?
(A) Brahmi
(B) Dill
(C) Aswagandha
(D) Datura
94. Scientific name of Ivy gourd is
(A) *Momordica cochinchinensis*
(B) *Coccinia grandis*
(C) *Cucurbita ficifolia*
(D) *Momordica balsamina*
95. Which flower is most suitable for drying?
(A) Poppy
(B) Tuberose
(C) Helichrysum
(D) Cosmos
96. Male sterility in beet is due to
(A) single recessive gene.
(B) plasmic and gene interaction.
(C) staminal sterility.
(D) functional pollen sterility.
97. Water Use Efficiency of which method of irrigation is high?
(A) Flood irrigation
(B) Sprinkler
(C) Drip
(D) All of the above
98. Length of spike of fancy grade Gladiolus is
(A) <81
(B) 81-95
(C) 96-106
(D) >107
99. Which one of the following is a fragrant shrub?
(A) *Cestrum nocturnum*
(B) *Hamelia patens*
(C) *Ixora parviflora*
(D) *Thevetia peruviana*
100. Pusa Ruby has been developed by crossing
(A) Sioux × Improved Meeruti
(B) Improved Meeruti × Red Cloud
(C) EC-55005 × Punjab Tropic
(D) Long Style × Roma

AHT/19

A-12

Space for Rough Work

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