Asstt. Horticulture

HDA/20

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

2020

TEST BOOKLET

General Studies, Arithmetic and English

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

Full marks : 100

Answer ***all*** the questions.

Questions are of equal value.

TEST BOOKLET SERIES

A

Serial No. 313

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, containing 100 questions. **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-Sheet 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 circle 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. If more than one circle is encoded for a particular answer, it will be treated as a wrong answer.
6. ***There will be negative marking of $\frac{1}{3}$ mark for each wrong answer.***
7. ***There is a blank page at the end of this Booklet for Rough Work.***
8. ***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. The 73rd Amendment Act (1993) introduced _____.

(A) Voting rights to the people of India
(B) Centralization of power
(C) Panchayat system in India
(D) Municipal Corporation in India

2. When did the Queens Proclamation declare the end of rule by East India Company in India?

(A) 1858
(B) 1856
(C) 1857
(D) 1859

3. If Sangeeta's daughter is my daughter's mother, then how am I relate to Sangeeta?

(A) Son is the only possibility
(B) Son-in-law is the only possibility
(C) Daughter is the only possibility
(D) Son-in-law or daughter

4. Fill in the blank :

He is _____ music.

(A) for
(B) of
(C) about
(D) to

5. If the length of a rectangle is increased by 20% and the breadth is reduced by 20%, what will be the effect on its area?

(A) 4% increase
(B) 6% increase
(C) 4% decrease
(D) None of these

6. What is the maximum sum of the numbers of saturdays and sundays in a leap year?

(A) 104
(B) 105
(C) 106
(D) 107

7. If the difference between the compound interest and the simple interest on a certain sum at 15% per annum for 3 yrs is Rs. 283·50, then the sum is

(A) Rs. 3,500
(B) Rs. 4,000
(C) Rs. 4,500
(D) Rs. 5,000

8. The expression 'to get the better of' means

(A) become better
(B) gain an advantage over another
(C) to get a better deal
(D) to get more

9. The synonym of cerebral is

(A) intellectual
(B) fierce
(C) ritual
(D) rare

10. HCF and LCM of two numbers are 16 and 240 respectively. If one of the number is 48, then the other number is

(A) 32
(B) 64
(C) 80
(D) 160

11. When is the United Nations Day observed?
(A) 24 October
(B) 23 September
(C) 23 October
(D) 24 September

12. Where was 2014 FIFA World Cup held?
(A) Columbia
(B) Brazil
(C) Russia
(D) Qatar

13. Complete the sentence with a suitable word:
Make _____ while the sun shines.
(A) fun
(B) game
(C) hay
(D) rice

14. If 90% of A = 30% of B and B = x% of A, then the value of x is
(A) 600
(B) 800
(C) 900
(D) 300

15. Fill in the correct preposition:
The book is _____ the box.
(A) in
(B) beside
(C) inside
(D) within

16. Which of the following sentences is correct?
(A) The buses are not going in the city today.
(B) The buses are not playing in the city today.
(C) The buses are not plying in the city today.
(D) The buses are not coming in the city today.

17. The synonym of nonconformist is
(A) individualist
(B) unconventional
(C) non-cooperative
(D) unyielding

18. A train crosses 210 and 122 meters long tunnels in 25 and 17 seconds respectively. The speed of the train is
(A) 10m/sec.
(B) 11m/sec.
(C) 12m/sec.
(D) 13m/sec.

19. Where is the Nal Sarovar Bird Sanctuary located?
(A) Gujarat
(B) West Bengal
(C) Assam
(D) Madhya Pradesh

20. What does 'GST' stand for?
(A) General Goods & Services Tax
(B) Goods & Sales Tax
(C) Goods & Services Tax
(D) General Sales Tax

21. What is the capital of North Korea?

(A) Pyongyang
(B) Washington
(C) Moscow
(D) Kuala Lumpur

22. The phrases "Liberty", "Equality" and "Fraternity" are associated with the —

(A) American War of Independence
(B) Glorious Revolution
(C) Independence of India
(D) French Revolution

23. The antonym of selfless is

(A) egoistic
(B) considerate
(C) liberal
(D) selfish

24. Fill in the blank with the correct preposition:

She bought it _____ a shop near her school.

(A) in
(B) at
(C) beside
(D) to

25. In which year the Beijing World Conference on Women held?

(A) 1996
(B) 1995
(C) 1994
(D) 1993

26. Change into indirect speech:

"Shall I close the door?"

(A) He asked if he could close the door.
(B) He asked if the door could be closed.
(C) He asked if the door was closing.
(D) He asked if he should close the door.

27. In a room, we have one grandfather, two fathers, two sons and a grandson. The age of one father is seven times the age of his son. The age of the other father is twice his son's age. Assuming that there are only 3 people in the room and the grandfather is 70 years old, how old is the grandson?

(A) 1
(B) 2
(C) 3
(D) 5

28. Who is the author of the book 'Brief History of Time'?

(A) Joseph Stiglitz
(B) Stephen Hawking
(C) Salman Rushdie
(D) Deepak Nayyar

29. The statement—"The father of my son is the only child of your parents".—

(A) can never be true.
(B) is true in only one type of relation.
(C) can be true for more than one type of relations.
(D) can be true only in a polygamous family.

30. One day morning Ajay and Bijoy were talking to each other standing face to face. The shadow of Ajay was on his left side. Bijoy was facing towards

(A) north
(B) south
(C) north-east
(D) east

31. Polyploidy variety of Mango —

(A) Vellaicollamban
(B) Olour
(C) Kurukkan
(D) All of the above

32. Most suitable packaging material for cut flower is

(A) Wooden boxes
(B) Plastic boxes
(C) Cardboard boxes
(D) Crates

33. Yellowing of lawn grass indicates deficiency of which nutrient?

(A) Nitrogen
(B) Phosphorous
(C) Potassium
(D) Calcium

34. Roots of which of the following are used for oil extraction?

(A) Sweet pea
(B) Iris
(C) Gardenia
(D) Rose

35. In which of the following medicinal plant roots is used for medicinal purpose?

(A) Brahmi
(B) Dill
(C) Aswagandha
(D) Datura

36. Which of the following is commercially propagated by bulbs?

(A) Gladiolus
(B) Lily
(C) Carnation
(D) Rose

37. The unit of freezing rate is denoted by

(A) °C cm/hr
(B) cm/hr
(C) °C/ min
(D) cm °C

38. Litchi is stored at low temperature at relative humidity of

(A) 80%
(B) 85%
(C) 90%
(D) 95%

39. In which of the following vegetables Vitamin-C is maximum?

(A) Chilli
(B) Coriander leaves
(C) Drumstick leaves
(D) Bathua leaves

40. Pre harvest application of which growth substances in citrus retards chlorophyll disappearance?

(A) Ethylene
(B) Benzylaminopurine
(C) Gibberellic acid
(D) Maleic Hydrazide

41. In controlled atmosphere storage composition of which of the following sets of gases is controlled?

(A) $O_2 + N_2$
(B) $CO_2 + N_2$
(C) $C_2H_4 + N_2$
(D) $CO_2 + O_2$

42. Theobromin in cocoa is extracted from

(A) Bark
(B) Fruit
(C) Root
(D) Seed

43. Cultivated strawberry is

(A) Diploid
(B) Octaploid
(C) Hexaploid
(D) Triploid

44. For drying of pea, tenderometer reading should be about

(A) 85–95
(B) 95–105
(C) 105–110
(D) 115

45. Man-made hybrid is

(A) Pineapple
(B) Strawberry
(C) Pomegranate
(D) Apple

46. Which of the following chemical is used for polyploidy breeding?

(A) MH
(B) CCC
(C) NAA
(D) Colchicine

47. Which watermelon variety is strictly seedless?

(A) Pusa Bedana
(B) Tetra-2
(C) Sugar Baby
(D) PKM-1

48. Vengurla-3 is a variety of the following plantation crops:

(A) Oil palm
(B) Areca nut
(C) Coconut
(D) Cashew nut

49. Whip tail in cauliflower is due to deficiency of

(A) Boron
(B) Mg
(C) Mn
(D) Mo

50. Which of the following species of orchid is temperate?

(A) Dendrobium
(B) Vanda
(C) Cymbidium
(D) Cattleya

51. French bean is a native of
(A) Mediterranean region
(B) Asia
(C) South and Central America
(D) Northern Africa

52. Male sterility in beet is due to
(A) single recessive gene.
(B) plasmic and gene interaction.
(C) staminal sterility.
(D) functional pollen sterility.

53. Pink fleshed variety of Papaya—
(A) Sunrise solo
(B) Taiwan
(C) Surya
(D) Coorg Honey Dew

54. Which is a heavy climber?
(A) *Antigonon leptopus*
(B) Sweet pea
(C) *Petrea volubilis*
(D) *Clitoria ternatea*

55. Storage temperature and relative humidity of ginger for long storage life is
(A) 0°C and 65%
(B) 13°C and 65 %
(C) 15°C and 85 %
(D) 13°C and 85%

56. Most commonly used vegetative propagation method in rose is
(A) Layering
(B) Cutting
(C) Budding
(D) Tissue Culture

57. Which one of the following is a fragrant shrub?
(A) *Cestrum nocturnum*
(B) *Hamaelia patens*
(C) *Ixora parviflora*
(D) *Thevetia peruviana*

58. Seed rate of tomato in general is
(A) 200 to 300g/ha
(B) 400 to 500g/ha
(C) 600 to 700g/ha
(D) 800 to l000g/ha

59. Respiration rate of which of the following vegetables is very low?
(A) Onion
(B) Sweet pepper
(C) Okra
(D) Carrot

60. 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

61. Turnip belongs to genus
(A) Beta
(B) Brassica
(C) Raphanus
(D) Daucus

62. Which flower is most suitable for drying?
(A) Poppy
(B) Tuberose
(C) Acroclinium
(D) Cosmos

63. Seedless variety of Mango —
(A) Mallika
(B) Safari
(C) Ratna
(D) Sindhu

64. Yellow flowering avenue tree is
(A) *Delonix regia*
(B) *Cassia fistula*
(C) *Jacaranda mimosifolia*
(D) *Lagerstroemia*

65. TSS range for mature watermelon is
(A) 7–9°Brix
(B) 10–12°Brix
(C) 13–15°Brix
(D) 16–18°Brix

66. *Tagetis patula is*
(A) Triploid
(B) Diploid
(C) Tetraploid
(D) Aneuploid

67. Which enzyme is used for clarification of fruit juice?
(A) Oxidase
(B) Polygalucturonase
(C) Phelonase
(D) Pectinol

68. Which one is sensitive to high water table?
(A) Guava
(B) Plum
(C) Peach
(D) Pear

69. Which of these vegetables is deep rooted crop?
(A) Onion
(B) Potato
(C) Carrot
(D) Sweet Potato

70. Which fruit is commonly known as "Fruit of New World"?
(A) Jackfruit
(B) Passion fruit
(C) Avocado
(D) Mango

71. Pusa Majestic is a variety of
(A) Papaya
(B) Guava
(C) Mango
(D) Citrus

72. Which one of the following is a climacteric fruit?
(A) Fig
(B) Citrus
(C) Grape
(D) Ber

73. Ready-to-serve fruit beverage contains at least
(A) 10% fruit juice
(B) 15% fruit juice
(C) 20% fruit juice
(D) 25% fruit juice

74. Vegetative propagation of date palm is through _____.
(A) Runners
(B) Suckers
(C) Slips
(D) Stolen

75. Clamp method of storage is a traditional method of storage of
(A) Onion
(B) Potato
(C) Sweet potato
(D) Cassava

76. Sweet corn is
(A) Monoecious annual
(B) Dioecious annual
(C) Hermaphrodite annual
(D) Monoecious biennial

77. 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.

78. 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

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

80. Example of stem vegetable is
(A) Carrot
(B) Beet
(C) Broccoli
(D) Knol-khol

81. Indigenous cultivar of arecanut is
(A) Mangla
(B) Sumangla
(C) Sreemangala
(D) Mohitnagar

82. Tongue grafting is a modified form of
(A) Saddle grafting
(B) Whip grafting
(C) Inarching
(D) None of the above

83. Disease free plants in micro propagation can be obtained through
(A) Meristem culture
(B) Anther culture
(C) Embryo culture
(D) Cell culture

84. Open centre system of training is followed in
(A) Pear
(B) Plum
(C) Apple
(D) Peach

85. Which of the following statements is incorrect with regard to problem of jam production?
(A) If the invert sugar of jam is less than 30%, sugar may crystallize.
(B) High per cent of TSS tends the gum to become gummy and sticky.
(C) Low TSS and high pectin content may cause premature setting.
(D) Surface graining is caused by invert sugar more than 50%.

86. Bush type lablab bean is
(A) Arka Komal
(B) JDL-79
(C) Arka Jay
(D) Pusa Early Prolific

87. In making tomato ketchup $\frac{1}{3}$ of sugar is added
(A) initially at the start of preparation.
(B) at the time of commencement of boiling.
(C) towards the end of cooking process.
(D) after the cooking process is over.

88. Powdery mildew disease is a serious problem of which of the following crops?
(A) Onion
(B) Okra
(C) Pea
(D) Chilli

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

90. Bending is practice in guava to encourage
(A) better sprouting.
(B) better ripening.
(C) better fruiting.
(D) better quality.

91. Which growth regulator is used to reduce period of chilling requirement?

(A) NAA
(B) IBA
(C) GA_3
(D) Cytokinin

92. Single seeded berry is

(A) Areca nut
(B) Coconut
(C) Cashew
(D) Coffee

93. Essential oil is extracted from

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

94. Which of the causes is not a factor of weeping jelly?

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

95. Modified stem of banana is

(A) Sword suckers
(B) Rhizomes
(C) Water suckers
(D) Corm

96. Methyl jamonate vapour treatment followed by MAP increases quality of

(A) Pineapple
(B) Papaya
(C) Banana
(D) Apple

97. The fruit of banana is botanically a

(A) Pepo
(B) Berry
(C) Pome
(D) Drupe

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

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

99. Tea plantation requires a rainfall of about

(A) 25-50 cm
(B) 50-100 cm
(C) 100-150 cm
(D) 150-250 cm

100. Annual flower suited for planting in shade —

(A) Anthurium
(B) Stock
(C) Cineraria
(D) Nasturtium

Space for Rough Work