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OPSC
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Previous Year Paper
(Horticulture-I)
09 Feb, 2025

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T.B.C. : ASCO-IV(i)-24/25

Sl. No. 20513

TEST BOOKLET

ASSISTANT SOIL CONSERVATION OFFICER (HORTICULTURE) (PAPER - I)

Test Booklet Series

A

K-46

Time Allowed : 1½ Hr.

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. IMMEDIATELY AFTER COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D,** AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided along side. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **100** items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ***ONLY ONE*** response (answer) for each item (question).
6. You have to mark (darken) all your responses ***ONLY*** on the **separate Answer Sheet** provided, by **using BALL POINT PEN (BLUE OR BLACK).** See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet.
8. Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your **Admission Certificate.**
9. After you have completed filling in all your responses on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

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1. Which of the following Horticultural and plantation crops is predominantly occupying in Agro ecological region 21?

(A) Apple

(B) Citrus

(C) Mango

(D) Coconut

2. The type of pruning which is done after the flowering period when shoot growth is still succulent is called

(A) Early summer pruning

(B) Mid-summer pruning

(C) Late summer pruning

(D) Shoot pinching

3. Which of the following types of manures used for horticultural crops have highest N content?

(A) Vermicompost

(B) *Sesbania aculeata*

(C) *Crotolaria juncea*

(D) Poultry manure

4. In Custard apple, which leaf is considered as index leaf to determine the nutritional needs?

(A) Third leaf from apex

(B) Fourth leaf from apex

(C) Fifth leaf from apex

(D) Most recently matured leaf

5. What is the recommended number of weeding for okra cultivation per year?

(A) 3

(B) 6

(C) 8

(D) 10

6. Which of the following is true about Internal Browning of Apple?

(A) Small sunken spots on fruit surface and is more prevalent near blossom end

(B) Light mottling on greener surface of fruits

(C) Brownish streaks radiating into flesh from the core

(D) Golden delicious is most susceptible cultivar

7. The germination in radish seeds can be stimulated when seeds are sown after soaking in

(A) 10 ppm NAA

(B) 20 ppm NAA

(C) 5 ppm GA_3

(D) All of these

8. The herbicide used for Potato is

(A) Pendimethalin

(B) Metribuzin

(C) Butachlor

(D) Atrazine

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9. The concept of Biodynamic farming was proposed by

(A) Rudolf Steiner

(B) Nammazhwar

(C) Sir Albert Howard

(D) Prof. Higa

10. Among all the fruits of India, which one of the following occupies prime position in export?

(A) Banana

(B) Mango

(C) Citrus

(D) Grapes

11. In India, during 2020-21 the production of Potato was

(A) 56173 Thousand MT

(B) 26641 Thousand MT

(C) 21550 Thousand MT

(D) 32002 Thousand MT

12. Among the different states of India, the highest production of flowers is from which of the following state?

(A) Karnataka

(B) Madhya Pradesh

(C) West Bengal

(D) Tamil Nadu

13. In India, during 2020-21, over the last decade, the production of Horticultural crops have been increased by

(A) 2.1%

(B) 3.9%

(C) 5.4%

(D) 6.9%

14. Pre harvest fruit drop in Apple can be controlled by spraying

(A) NAA @ 10 ppm

(B) NAA @ 20 ppm

(C) NAA @ 30 ppm

(D) NAA @ 40 ppm

15. Which of the following protected structure is known as miniature polyhouse?

(A) Soil trench

(B) Cold frames

(C) Hot beds

(D) Low tunnels

16. Whip tail of turnip is due to deficiency of

(A) Ca

(B) B

(C) Mo

(D) Mn

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17. Apple scab is caused by

(A) *Stretomyces scabies*

(B) *Venturia inequalis*

(C) Both of these

(D) None of these

18. Phyllody disease of Radish is transmitted by

(A) Aphids

(B) White fly

(C) Leafhopper

(D) Thrips

19. Which of the following is the causal agent for Powdery mildew of cucurbitaceous crops?

(A) *Podosphaera xanthii*

(B) *Erisyphe cichoracearum*

(C) Both of these

(D) None of these

20. Which of the following is the causal organism for soft rot of Ginger?

(A) *Pythium aphanidermatum*

(B) *P. myriotylum*

(C) *Fusarium solani*

(D) All of these

21. Prabha Shankar is a mango hybrid developed by crossing

(A) Bombay × Kalapady

(B) Bombay × Dashehari

(C) Neelum × Dashehari

(D) Rumani × Neelum

22. Dwarf Cavendish banana belongs to the genomic group

(A) ABB

(B) AAB

(C) AAA

(D) None of these

23. Foster is a cultivar of which of the following species of Citrus?

(A) *Citrus limon*

(B) *Citrus aurantifolia*

(C) *Citrus sinensis*

(D) *Citrus paradisi*

24. Which of the following cultivar of Guava is having resistance to Guava wilt?

(A) Chittidar

(B) Riverside

(C) Portugal

(D) Pusa Srijan

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25. Which of the following is a dwarf rootstock of Apple?

(A) M-7

(B) M-9

(C) M-26

(D) MM 111

26. For papain extraction, under good management practices, the latex yield from 1 plant is approximately

(A) 10 kg

(B) 15 kg

(C) 20 kg

(D) 25 kg

27. In high density system of Pineapple, by maintaining a spacing of 60 × 30 × 45 cm, it can accommodate the number of plants in 1 hectare of land is

(A) 63000 plants

(B) 64000 plants

(C) 70000 plants

(D) 75000 plants

28. Which of the following is the causal organism for fruit rot of litchi?

(A) *Cephaleuros parasiticus*

(B) *Claudosporium spp.*

(C) *Alternaria alternata*

(D) *Gleosporium spp.*

29. In cashewnut propagation by softwood grafting, the age of the rootstock should be

(A) 40-60 days

(B) 60-90 days

(C) 90-180 days

(D) 180-365 days

30. In date palm fruit development, the stage when the fruit is hard ripe, colour changes from green to yellow, pink or red (depending on variety) is known as

(A) Hababouk stage

(B) Kimri stage

(C) Khalal stage

(D) Rutab stage

31. Coconut hybrid Chandrasankara was developed by crossing

(A) COD × WCT

(B) WCT × COD

(C) LO × COD

(D) ADOT × GBT

32. Which of the following is true about the Ganoderma disease of Arecanut?

(A) Poor drainage and high water table is predisposing factor of this disease

(B) Affected plants initially show yellowing of inner whorl leaves

(C) Affected plants show dark yellow patches

(D) Roots of healthy palms show higher concentration of total phenols and polyphenol oxidase

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33. The content of Lauric acid i.e., the major fatty acids in Oil palm kernel oil is

(A) 8%

(B) 16%

(C) 24%

(D) 48%

34. Which of the following is not true about the tapping of Palmyra palm?

(A) Female palms are tapped when they are in flowering stage

(B) Male palms are tapped during December to February

(C) Tapping is done by cutting all leaves except 3 or 4 leaves at the top

(D) The yield of sap varies from 100-200 litres from a palm

35. Which of the following vegetative propagation method is giving more than 90% success in Aonla?

(A) Inarching

(B) Patch budding

(C) Air layering

(D) Softwood grafting

36. Sapota cultivar PKM 1 is a selection from

(A) Kalipatti

(B) Guthi

(C) Cricket Ball

(D) Kirthabarti

37. Israeli Selection is an inter specific hybrids of

(A) Sapota

(B) Aonla

(C) Bael

(D) Custard Apple

38. Which of the following tea is small tree growing up to 10-15 m and adapted to tropical conditions?

(A) China tea

(B) Assam tea

(C) Cambodian tea

(D) None of these

39. In Coffee, Selection 6 is a hybrid obtained by crossing

(A) S-274 × Kents

(B) Devamachy × S 881

(C) Hibrido-de-Timor × Tafarikela

(D) Caturra × Hibrido-de-Timor

40. The family of Cocoa is

(A) Asteraceae

(B) Rutaceae

(C) Rubiaceae

(D) Sterculiaceae

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41. Arka Rakshak (H-241) is a tomato hybrid developed by IIHR having resistance to

(A) ToLCV + BW + EB

(B) ToLCV + BW + LB

(C) ToLCV + BW + FW

(D) ToLCV + FW + EB

42. Which of the following is a shoot and fruit borer resistant variety of Brinjal?

(A) Arka Neelkanth

(B) Arka Keshav

(C) B-544

(D) All of these

43. Which of the following Bell pepper variety is turning orange yellow on ripening?

(A) California Wonder

(B) Arka Mohini

(C) Arka Gaurav

(D) Pusa Deepti

44. Water melon cultivar Arka Manik is having resistance to

(A) Anthracnose

(B) Powdery mildew

(C) Downy mildew

(D) All of these

45. In bitter gourd, the isolation distance maintained for foundation seed production is

(A) 400-500 m

(B) 800-1000 m

(C) 1500-2000 m

(D) None of these

46. The recommended seed rate for one hectare of bush type varieties of cowpea is

(A) 1-2 kg

(B) 4-5 kg

(C) 10-12 kg

(D) 25 kg

47. The late season cultivars of garden pea produces pod yield of

(A) 20-25 q /ha

(B) 25-40 q /ha

(C) 65-75 q /ha

(D) 85-115 q/ha

48. Which of the following carrot cultivar was introduced from Germany?

(A) Chantaney

(B) Imperator

(C) Zeno

(D) Nantes

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49. The recommended seed rate for spring summer season okra is

(A) 8-10 Kg/ha

(B) 15-20 Kg/ha

(C) 20-25 Kg/ha

(D) 100-125 Kg/ha

50. The average yield of improved Asiatic type varieties of radish is

(A) 40-50 q/ha

(B) 50-80 q/ha

(C) 100-120 q/ha

(D) 150-250 q/ha

51. Which of the following is a heat tolerant cultivar of cabbage?

(A) Pusa Drumhead

(B) September

(C) Pusa Ageti

(D) Pusa Mukta

52. Brussels sprouts variety identified as suitable for growing in India is

(A) Hilds Ideal

(B) Cambridge No. 5

(C) Improved long Island

(D) Dwarf Improved

53. In Black pepper, by using the rapid multiplication techniques, and with four harvests in a year, the multiplication rate can be obtained in one year is

(A) 1:20

(B) 1:40

(C) 1:80

(D) 1:160

54. For obtaining bleached Cardamom, the fresh capsules are soaked in

(A) 5% KMS solution containing 0.5 % Hydrogen peroxide

(B) 10% KMS solution containing 0.5 % Hydrogen peroxide

(C) 20% KMS solution containing 1% Hydrogen peroxide

(D) 50% KMS solution containing 1% Hydrogen peroxide

55. In Ginger, the oleoresin content is in the range of

(A) 3.5-10%

(B) 0.5-3.0%

(C) 10.5-15.5%

(D) None of these

56. In artificial drying of turmeric, by cross flow hot air, the maximum temperature allowed is

(A) 30°C

(B) 40°C

(C) 50°C

(D) 60°C

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57. The amount of essential oil in Indian coriander is

(A) 0.2-1.0%

(B) 1-1.5%

(C) 1.5-2%

(D) None of these

58. Anethole is obtained from the volatile oils of which of the following spices?

(A) Cumin

(B) Coriander

(C) Fennel

(D) Fenugreek

59. Nithyashree is a high yielding variety of

(A) Clove

(B) Nutmeg

(C) Cinnamon

(D) Cardamom

60. Clove belongs to the family

(A) Myrtaceae

(B) Lauraceae

(C) Myristicaceae

(D) Clausiaceae

61. In chrysanthemum, the rooted suckers which are planted during January should be first Pinched during

(A) February

(B) March

(C) April

(D) May

62. '*Sen rin tsukuri*' is a Japanese style of flower cultivation. Which of the following is not true about it?

(A) It is associated with chrysanthemum cultivation

(B) It means growing hundred blooms

(C) The plant is designed to a geometric shape and is trained in such a way that about 200-300 blooms/plant are formed

(D) Varieties suitable for this technique should have vigorous growth habit in all directions

63. American Beauty is a improved cultivar of

(A) Chrysanthemum

(B) Gladiolus

(C) Tuberose

(D) China Aster

64. Which of the following is a Sympodial orchid?

(A) *Arachnis*

(B) *Phalaenopsis*

(C) *Vanda*

(D) *Cattleya*

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65. The average number of spikes produced in one *Dendrobium* orchid is

(A) 6-8

(B) 10-15

(C) 15-20

(D) 20-25

66. Which of the following types of roses are multiplied by stem cuttings?

(A) Polyanthas

(B) Miniatures

(C) Climbers

(D) All of these

67. The most common planting time of Tuberose in Indian plains is

(A) November - January

(B) February - April

(C) May - July

(D) August - November

68. Which of the following is an example of Pompon dahlia?

(A) Diana Gregory

(B) Hallmark

(C) Honeycomb

(D) All of these

69. Dwarf Chrysanthemum is a cultivar of

(A) Gerbera

(B) China Aster

(C) Marigold

(D) Chrysanthemum

70. In Marigold, which of the following is best propagating material?

(A) Cuttings of 6-10 cm length from apical portion of the shoot

(B) Cuttings of 6-10 cm length from basal portion of the shoot

(C) Cuttings of 10-15 cm length from apical portion of the shoot

(D) Cuttings of 10-15 cm length from basal portion of the shoot

71. The type of protected structure which have straight sides and flap tops and the frame consists of wood or iron posts and the cover consists of light transmitting plastic or cloth is called

(A) Lath house

(B) Cloth house

(C) Hot bed

(D) Shade net

72. Which of the following grass is suitable for making lawn in a shady place?

(A) *Cynodon dactylon*

(B) *Zoysia japonica*

(C) *Cyperus rotundus*

(D) *Oxalis trifolia*

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73. The type of Bonsai where first plant grows upright and it is then abruptly turns to grow downwards is called

(A) Broom style

(B) Windswept style

(C) Cascade style

(D) Weeping style

74. In landscape architecture, which of the following is used as part of sculpture?

(A) Terracotta

(B) Marble figures

(C) Stone carvings

(D) All of these

75. Which of the following type of flower arrangement is made in shallow containers?

(A) *Ikebana*

(B) *Moribana*

(C) *Jiyu-Bana*

(D) *Zen' ei-bana*

76. Which of the following is an almost spineless cactus?

(A) *Ariocarpus*

(B) *Lophophora*

(C) *Epiphyllum*

(D) All of these

77. Which of the following is not included in water garden?

(A) Swimming pool

(B) Waterfalls

(C) Islands

(D) None of these

78. Which of the following palm is suitable as indoor plant

(A) *Aiphanes aculeata*

(B) *Chamaedorea brachypoda*

(C) *Howea forsteriana*

(D) *Phoenix dactylifera*

79. Which of the following climbers are used for Pergolas?

(A) *Clematis flammula*

(B) *Clerodendrum thomsonae*

(C) *Tristellateia austrastis*

(D) *Atlamanda cathartica*

80. The recommended spacing for Gerbera is

(A) 15-20 × 20-25 cm

(B) 20-25 × 25-30 cm

(C) 30-35 × 35-45 cm

(D) 35-45 × 45-60 cm

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81. For preparing Syrup, the TSS content of the syrup should be at least

(A) 25%

(B) 45%

(C) 65%

(D) 75%

82. The sparkling, clear sweetened fruit juice from which pulp and other suspended materials have been completely removed is called

(A) Squash

(B) Syrup

(C) Cordial

(D) RTS

83. The product with reasonable thick consistency, prepared by boiling the fruit pulp with sufficient quantity of sugar firm enough to hold the fruit tissues in position is called

(A) Jam

(B) Jelly

(C) Marmalade

(D) Preserve

84. Vegetables preserved with vinegar should need to reach a final concentration of acetic acid

(A) 10-15%

(B) 6-9%

(C) 2-3%

(D) Below 2%

85. Starch content is the maturity indices for which of the following fruits?

(A) Pomegranate

(B) Avocado

(C) Persimmons

(D) Apples

86. In vacuum packaging, the Oxygen level is reduced to

(A) Less than 5%

(B) Less than 2%

(C) Less than 1%

(D) None of these

87. Which of the following storage method is also known as low pressure storage?

(A) MA storage

(B) CA storage

(C) Hypobaric storage

(D) Evaporative cool storage

88. Which of the following is not true about Cryogenic transport system?

(A) Ice and salt is used as refrigerants

(B) Liquid nitrogen is used as refrigerants

(C) Liquid carbon dioxide is used as refrigerants

(D) The liquid refrigerant is carried in pressurized tanks on the vehicle

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89. The alcohol content of Strong wines are

(A) 7-9 percent

(B) 9-16 percent

(C) 16-21 percent

(D) 21-25 percent

90. In which of the following vinegar making process, the instrument named as "Upright Generator" is used?

(A) Slow process

(B) Orleans slow process

(C) Quick process

(D) None of these

91. Which of the following is not true about sauces?

(A) The minimum TSS content is 28 %

(B) The minimum TSS content is 30 %

(C) Apple pulp is used as thickening agent to prevent sedimentation of solid particles

(D) Starch from potato, maize, arrowroot and sago are used as thickening agent

92. Which of the following is not an example of commercial wax?

(A) Shellac

(B) Carnauba wax

(C) Paraffin wax

(D) Chitosan

93. Which of the following is not true about Class II preservative Sulphur dioxide?

(A) It is more effective against yeast

(B) It acts as an antioxidant and helps in retention of ascorbic acid

(C) It is used for controlling both enzymatic and non-enzymatic browning

(D) It cannot be used in naturally coloring juices like jamun, strawberry

94. The process of sealing foodstuffs in hermetically in containers and sterilizing them by heat for long storage is

(A) Bottling

(B) Canning

(C) Pickling

(D) None of these

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95. The maximum permitted levels of Benzoic acid for RTS is

(A) 750 ppm

(B) 600 ppm

(C) 250 ppm

(D) 120 ppm

96. Which of the following is true about chutney?

(A) It should have 25% TSS and 0.5% acidity

(B) It should have 50% TSS and 1% acidity

(C) It should have 15 % TSS and 1.5 % acidity

(D) It should have 25% TSS and 2 % acidity

97. Kanji is a fermented beverage very popular in India is prepared from

(A) Radish

(B) Turnip

(C) Black carrot

(D) Broccoli

98. On the basis of respiration rates, Strawberries are grouped under

(A) Low respiration rate

(B) Moderate respiration rate

(C) High respiration rate

(D) Very high respiration rate

99. Oil content is the maturity indices of which of the following fruits?

(A) Pears

(B) Citrus

(C) Avocados

(D) Persimmons

100. The rate of precooling depends on

(A) The difference in temperature between crop and cooling medium

(B) Velocity of the cooling medium

(C) Rate of transfer of heat from crop to cooling medium

(D) All of these

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