

SEAL

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T.B.C. : AAO – 1/25

Test Booklet Series

Serial No. 15145

A

TEST BOOKLET

ASSISTANT AGRICULTURE OFFICER

PAPER – I

Time Allowed : 2 hrs.

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

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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 OMR Answer Sheet.
7. All items (questions) carry **01 (one)** mark. 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. **There shall be penalty for incorrect answer with a deduction of 25% mark for each wrong answer.**
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.
11. **After completion of the Written Examination, the Provisional Answer Key shall be uploaded in the website of the Commission i.e. www.opsc.gov.in within 10 (Ten) days of the examination, inviting suggestions/objections, if any, from the candidates. Those candidates who do not challenge the Provisional Answer Key shall forfeit their right to agitate the matter subsequently in any forum in any other manner.**

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1. Which chemical is banned by Government of India for ripening of fruits under PFA Act 8-44 AA, 1954?
 - (A) Calcium carbide
 - (B) Calcium carbonate
 - (C) Ethylene
 - (D) 2-chloroethane phosphonic acid
2. Mrug-1, Purva-1, M-3-1, M-2,3, Vinayka, Kalika and Kanak are varieties of
 - (A) Groundnut
 - (B) Sesame
 - (C) Sunflower
 - (D) Linseed
3. NPOP stands for
 - (A) National Programme on Organic Propaganda
 - (B) National Programme on Organic Production
 - (C) National Programme on Organic Promotion
 - (D) National Programme on Organic Price
4. Avocado originated in
 - (A) South Africa
 - (B) Central America
 - (C) Indonesia
 - (D) Venezuela
5. *Bombyx mori* feeds on
 - (A) *Quercus serrata*
 - (B) *Terminalia arjuna*
 - (C) *Morus alba*
 - (D) *Ricinus communis*
6. Wood of Angiosperms is known as porous wood due to presence of
 - (A) Fibres
 - (B) Broad rays
 - (C) Vascular tracheids
 - (D) Vessels
7. Which one of the following yield is an extremely durable timber?
 - (A) *Tectona grandis*
 - (B) *Adina cordifolia*
 - (C) *Dalbergia paniculata*
 - (D) *Toona ciliata*
8. What would be the yield of rice grains, if the average ear head density/m² 260, average number of field grains per panicle 136 and test weight is 20g?
 - (A) 7.08t/ha
 - (B) 0.017t/ha
 - (C) 70.08t/ha
 - (D) 3.82t/ha

9. National Research Centre for Agroforestry is located in
- (A) Hisar
(B) Trichy
(C) Nagpur
(D) Jhansi
10. Which silk is also called peace silk?
- (A) Mulberry silk
(B) Eri silk
(C) Muga silk
(D) Tasar silk
11. The ornamental plant 'Bird of Paradise' is
- (A) Annual
(B) Biennial
(C) Woody perennial
(D) Herbaceous perennial
12. The rotation period of *Mangifera indica* is
- (A) < 5 years
(B) 6-15 years
(C) 16-25 years
(D) 26-60 years
13. Which of the following is used as a green manure before transplanting rice?
- (A) *Pongamia*
(B) *Azolla*
(C) *Bacillus*
(D) *Rhizobium*
14. July Elberta is a promising variety of
- (A) Pear
(B) Apple
(C) Peach
(D) Mango
15. Vase life of cut carnations can be increased by placing in solution containing
- (A) 10% sucrose + 200 ppm 8-HQC
(B) 15% sucrose + 200 ppm 8-HQC
(C) 25% sucrose + 300 ppm 8-HQC
(D) 10% glucose + 50 mg/lit AgNO_3
16. Which of the following is a monopodial Orchid?
- (A) *Oncidium*
(B) *Arachnis*
(C) *Cattleya*
(D) *Dendrobium*

17. Hypobaric storage refers to the storage of fruits and vegetables under
- (A) Reduced atmospheric pressure
 - (B) Optimum atmospheric pressure
 - (C) Increased atmospheric pressure
 - (D) Refrigeration
18. Aril is the edible portion of which fruit?
- (A) Apple
 - (B) Pear
 - (C) Grapes
 - (D) Mangosteen
19. Many of the fungi which causes post-harvest disease belong to the phylum
- (A) Ascomycota
 - (B) Zygomycota
 - (C) Basidiomycota
 - (D) Glomeromycota
20. T-3, Tarai-4, Kalpi-6, Bhagya and B-1 are varieties of
- (A) Sweet potato
 - (B) Castor
 - (C) Niger
 - (D) Groundnut
21. Devine is a
- (A) Chemical fertilizer
 - (B) Bio-fertilizer
 - (C) Bio-herbicide
 - (D) Pesticide
22. Kalipatti, Vanjeet and Dhola Diwani are cultivars of
- (A) Sapota
 - (B) Mango
 - (C) Banana
 - (D) Guava
23. APEDA is a statutory body established by the Government of India under the Agricultural and Processed Food Products Export Development Authority Act passed by the Parliament in
- (A) December, 1985
 - (B) December, 1992
 - (C) December, 2014
 - (D) November, 2019
24. Yellow Stem Borer (*Scirpophaga incertulas*) damages the crop of
- (A) Soybean
 - (B) Mustard
 - (C) Maize
 - (D) Rice

25. Forest regenerated from seeds are
- (A) High forest
 - (B) Coppice Forest
 - (C) Normal forest
 - (D) Production forest
26. *Fusarium* sp., *Diplodia natalensis* and *Macrophomina phaseolina* cause dry root rot of
- (A) Citrus
 - (B) Mango
 - (C) Guava
 - (D) Pineapple
27. Which of the following species is heavily tapped for resins in India?
- (A) *Pinus roxburghii*
 - (B) *Pinus wallichiana*
 - (C) *Pinus kesiya*
 - (D) *Pinus sylvestris*
28. Which of the following species is restricted to Eastern Himalaya?
- (A) *Cedrus deodara*
 - (B) *Abies pindrow*
 - (C) *Pinus merkusii*
 - (D) *Pinus gerardiana*
29. Which timber species is highly refractory?
- (A) *Sterculia vilosa*
 - (B) *Trewia nudiflora*
 - (C) *Mangifera indica*
 - (D) *Syzygium cumini*
30. The fog formed by condensation of warm moist air is
- (A) Frontal fog
 - (B) Radiation fog
 - (C) Advectional fog
 - (D) Precipitation fog
31. Frankincense or olibanum is obtained from
- (A) *Boswellia carterii*
 - (B) *Boswellia serrata*
 - (C) *Callitris quadrivalvis*
 - (D) *Ferula assafoetida*
32. Which layer of Earth's atmosphere contains most of the satellites orbiting Earth?
- (A) Mesosphere
 - (B) Exosphere
 - (C) Stratosphere
 - (D) Troposphere

33. *Setaria italica* is commonly known as

- (A) Kodo millet
- (B) Finger millet
- (C) Foxtail millet
- (D) Pearl millet

34. Taungya system was introduced to India in 1890 by

- (A) Watson
- (B) Pearson
- (C) Brandis
- (D) Salisbury

35. If the storage life of fresh fruits is 4-8 weeks, it is called

- (A) Very perishable
- (B) Perishable
- (C) Semi perishable
- (D) Non-perishable

36. Stem or foot rot of papaya is caused by

- (A) *Rosellinia nectarix*
- (B) *Pythium myriotylum*
- (C) *Phytophthora cacotorum*
- (D) *Pythium aphanidermatum*

37. Which of the following ornamental plant is propagated by tubers?

- (A) Begonia
- (B) Canna
- (C) Tulip
- (D) Gladiolus

38. A process by which organic wastes are converted into organic fertilizers by means of biological activity under controlled conditions is

- (A) Composting
- (B) Vermicomposting
- (C) Manuring
- (D) FYM

39. In 1865, which fruit was introduced in India by Captain Lee?

- (A) Kiwi
- (B) Strawberry
- (C) Apple
- (D) Blackberry

40. Who is widely considered the 'Father of organic farming'?

- (A) Sir Albert Howard
- (B) Lady Eve Balfour
- (C) Lord Northbourne
- (D) Rudolf Steiner

41. Chemically silk is made of
- (A) Hemicellulose
 - (B) Proteins
 - (C) Lipids
 - (D) Cellulose
42. The diversity within a particular area or ecosystem and expressed by number of species in that ecosystem is
- (A) Alpha diversity
 - (B) Beta diversity
 - (C) Gamma diversity
 - (D) Theta diversity
43. Pinching is an important operation in successful production of
- (A) Jasmine
 - (B) Anthurium
 - (C) Carnations
 - (D) Chrysanthemum
44. Preservation of root and tuber crops based on insulation of crops with a layer of straw and a dry layer of soil or sand is
- (A) Clamp storage
 - (B) Pit storage
 - (C) Underground storage
 - (D) Cold storage
45. Gas mixtures used in Modified Atmospheric Packaging (MAP) is
- (A) Oxygen and Nitrogen
 - (B) Carbon dioxide and Nitrogen
 - (C) Carbon dioxide, oxygen and nitrogen
 - (D) Nitrogen, Hydrogen and Oxygen
46. Aroma compound Isothiocyanates are present in
- (A) Lemon
 - (B) Radish
 - (C) Unripe Apple
 - (D) Ripe Banana
47. How much nitrogen may be fixed in Rhizobium legume association?
- (A) 25 – 50 kg N/ha
 - (B) 50 – 100 kg N/ha
 - (C) 100 – 125 kg N/ha
 - (D) 150 – 200 kg N/ha
48. Which of the following fruit is Non-climacteric?
- (A) Sapota
 - (B) Guava
 - (C) Peach
 - (D) Cherry

49. Which fruit is referred as false fruit?
- (A) Apple
(B) Strawberry
(C) Plum
(D) Grape
50. *Plasmodiophora brassicae* causes
- (A) Finger and toe disease of Crucifers
(B) Powdery mildew of mustard
(C) Downy Mildew of Cauliflower
(D) Rust of Carrot
51. Which one of the following grows best in cooler temperatures, ideally between 15°C and 20°C, with less water requirement?
- (A) Cotton
(B) Maize
(C) Barley
(D) Pearl millet
52. The crop plants which are sown a few days or weeks before the harvesting of standing nature crop are known as
- (A) Smother crops
(B) Barrier crops
(C) Nurse crops
(D) Paira crops
53. The line drawn on a weather map joining places which experiences same quantity of rainfall for a given period of time is
- (A) Isotach
(B) Isohel
(C) Isotherm
(D) Isohytes
54. Zabo system of farming through rain water harvesting is practiced in
- (A) Odisha
(B) Nagaland
(C) Bihar
(D) U.P
55. Cut flowers are harvested
- (A) with stalk
(B) without stalk
(C) with leaves
(D) with whole plant
56. The grafting method in which tongue shaped cut is made both in stock and scion is
- (A) Cleft grafting
(B) Side grafting
(C) Whip or Spice grafting
(D) Approach grafting

57. The pit size for propagation of vermicompost is
- (A) 10 m × 1 m × 0.3 m
 - (B) 10 m × 2 m × 0.6 m
 - (C) 10 m × 1.5 m × 0.5 m
 - (D) 10 m × 3 m × 1 m
58. The plant disease showing the symptoms of progressive death of shoots, branches, roots starting at the tip is
- (A) Fleck
 - (B) Dieback
 - (C) Necrosis
 - (D) Pitting
59. Which of the following fruit drop is also known as "June drop"?
- (A) Pre harvest drop
 - (B) First drop
 - (C) Second drop
 - (D) Third drop
60. Avocado belongs of family
- (A) Lauraceae
 - (B) Phyllanthaceae
 - (C) Myrtaceae
 - (D) Arecaceae
61. *Peronospora pisi* is a downy mildew of
- (A) Apple
 - (B) Cucurbits
 - (C) Bajra
 - (D) Pea
62. Puff drying method is used for drying fruits of
- (A) Apple
 - (B) Citrus
 - (C) Banana
 - (D) Mango
63. Crown gall is a bacterial disease of
- (A) Rose
 - (B) Orchid
 - (C) Aster
 - (D) Jasmine
64. In the past, which one of following was used as a replacement to naturally released ethylene to enhance the ripening of fruits?
- (A) Carbon dioxide
 - (B) Acetylene gas
 - (C) Carbon disulphide
 - (D) Calcium carbide

65. Which is NOT required for storage of fruits in ECCs?

- (A) Electricity
- (B) Bricks
- (C) Bamboos
- (D) Dry grass

66. The seeds of mango lose their viability after extraction if NOT sown within

- (A) 4 – 5 weeks
- (B) 6 – 7 weeks
- (C) Two months
- (D) Four months

67. Which one of the following takes almost one year for fruiting after flowering?

- (A) Guava
- (B) Jamun
- (C) Mango
- (D) Bael

68. Which among these can be used as seed treatment against soil borne fungal diseases in organic farming?

- (A) Benlate
- (B) Bavistin
- (C) Trichoderma
- (D) Trichogramma

69. The relative land area under sole crops that is required to produce the yields achieved in intercropping

- (A) LER
- (B) CEY
- (C) RCC
- (D) RYT

70. 'Hortus' meaning garden is a

- (A) Greek word
- (B) English word
- (C) Latin word
- (D) Dutch word

71. Which of the following fruit is rich in Vitamin A?

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

72. Silkworm disease 'muscardine' is caused by

- (A) Fungi
- (B) Bacteria
- (C) Virus
- (D) Nematodes

73. Katha is produced from the heartwood of
- (A) *Acacia senegal*
(B) *Acacia mangium*
(C) *Acacia catechu*
(D) *Acacia modesta*
74. Kharif Crops are harvested during
- (A) June to July
(B) September to October
(C) April to June
(D) October to November
75. Crop plants grown on a small scale with intensive care in kitchen garden are
- (A) Gender crop
(B) Plantation crop
(C) Crop plants
(D) Natural crop
76. National Programme for Organic Production comes under
- (A) Ministry of Agriculture
(B) Ministry of Commerce
(C) Ministry of Health
(D) Ministry of External affairs
77. The branch of horticulture which deals on vegetables is
- (A) Floriculture
(B) Pomology
(C) Arboriculture
(D) Olericulture
78. A brown extract obtained from roots and low stem portion of a plant known as "Rasaunt" is obtained from
- (A) *Valeriana wallichii*
(B) *Rauwolfia serpentina*
(C) *Dioscorea deltoidea*
(D) *Berberis aristata*
79. In India two species of Whiteflies *Aleurolobus barodensis* and *Neomaskellia bergii* damage
- (A) Maize
(B) Wheat
(C) Barley
(D) Sugarcane
80. The largest chilli growing state in India is
- (A) Maharashtra
(B) Karnataka
(C) Andhra Pradesh
(D) Punjab

81. The headquarter of Silk Board of India is situated in

- (A) Assam
- (B) Bengaluru
- (C) Kolkata
- (D) Bihar

82. Which of the following is a non-refractory timber?

- (A) *Anogeissus latifolia*
- (B) *Cassia fistula*
- (C) *Abies pindrow*
- (D) *Shorea robusta*

83. Dammars are obtained from family

- (A) Leguminosae
- (B) Dipterocarpaceae
- (C) Pinaceae
- (D) Fossils

84. Which of the following indigenous race of silkworm is Bivoltine?

- (A) Kashmir race
- (B) Moria
- (C) Pure Mysore
- (D) C.Nichi

85. In alley cropping, the spacing between rows in field is usually

- (A) 2-4 m
- (B) 4-8 m
- (C) 1-2 m
- (D) 10-14 m

86. *Alternaria crassa* is a mycoherbicide for

- (A) *Aeschynomene aspera*
- (B) *Eichorrnea* sps.
- (C) *Datura stramonium*
- (D) *Sorghum halepense*

87. *Triticum durum* is a

- (A) Emmer wheat
- (B) Macaroni wheat
- (C) Dwarf wheat
- (D) Bread wheat

88. Myrobalans yield a

- (A) Leaf tan
- (B) Bark tan
- (C) Fruit tan
- (D) Wood tan

89. The normal size of herbarium sheet is

- (A) 27×42 cm
- (B) 28×40 cm
- (C) 28×42 cm
- (D) 27×50 cm

90. Rhizobium species suitable for soybean is

- (A) *Rhizobium tripoli*
- (B) *Rhizobium phaseoli*
- (C) *Rhizobium japonicum*
- (D) *Rhizobium meliloti*

91. Annatto dye is obtained from

- (A) Fruits
- (B) Leaves
- (C) Wood
- (D) Flowers

92. Kamela powder dye is obtained from

- (A) *Bixa orellana*
- (B) *Mallotus philippensis*
- (C) *Pterocarpus santalinus*
- (D) *Acacia catechu*

93. Which silk is specific to state of Assam?

- (A) Oak silk
- (B) Tasar silk
- (C) Mulberry silk
- (D) Muga silk

94. Gelatinous fibres are present in

- (A) Tension wood
- (B) Compression wood
- (C) Sapwood
- (D) Heartwood

95. An instrument used for estimating cloud amount and height is known as

- (A) Cirrometer
- (B) Ceilometer
- (C) Blue watch
- (D) Barogram

96. All lands with tree covers of canopy density between 10% and 40% is

- (A) open forest
- (B) scrub
- (C) moderately dense forest
- (D) non forest

97. Transfer of explant into the culture medium is known as

- (A) sub culturing
- (B) inoculation
- (C) sterilization
- (D) propagation

98. The species which are considered more important in determining the presence of many other species in that ecosystem are

- (A) Flagship species
- (B) Keystone species
- (C) Umbrella species
- (D) Indicator species

99. Offset refers to

- (A) modified stem
- (B) shoot that arises from adventitious bud or root
- (C) swollen base of a stem
- (D) lateral shoots that develop from main stem

100. Red rust of tea is

- (A) algal disease
- (B) fungal disease
- (C) bacterial disease
- (D) viral disease

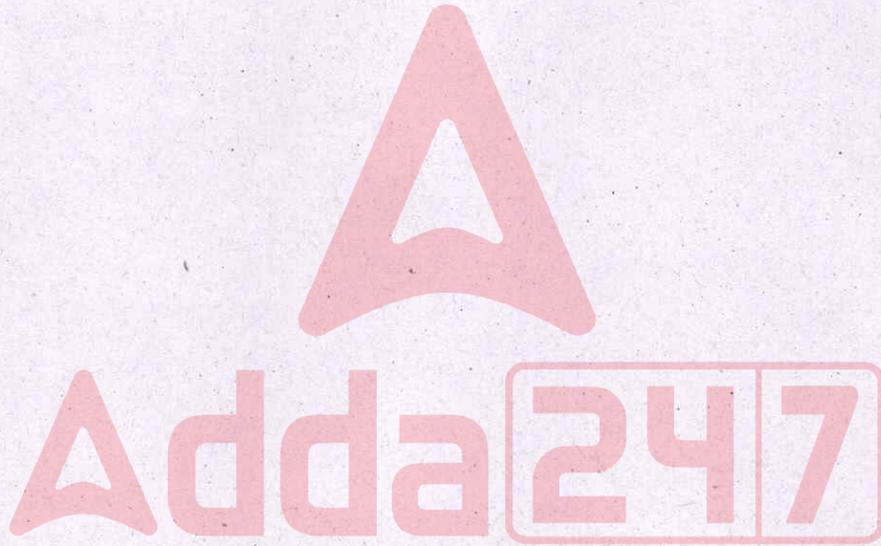
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