

OPSC AAO Paper I Held on 19 Feb 2026

1. The pit size for propagation of vermicompost is

- (A) $10\text{ m} \times 1\text{ m} \times 0.3\text{ m}$
- (B) $10\text{ m} \times 2\text{ m} \times 0.6\text{ m}$
- (C) $10\text{ m} \times 1.5\text{ m} \times 0.5\text{ m}$
- (D) $10\text{ m} \times 3\text{ m} \times 1\text{ m}$

2. 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

3. 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

4. Avocado belongs of family

- (A) Lauraceae
- (B) Phyllanthaceae
- (C) Myrtaceae
- (D) Arecaceae

5. *Peronospora pisi* is a downy mildew of

- (A) Apple
- (B) Cucurbits
- (C) Bajra
- (D) Pea

6. Puff drying method is used for drying fruits of

- (A) Apple
- (B) Citrus
- (C) Banana
- (D) Mango

7. Crown gall is a bacterial disease of

- (A) Rose
- (B) Orchid
- (C) Aster
- (D) Jasmine

8. 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

9. 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

10. Aril is the edible portion of which fruit?

- (A) Apple
- (B) Pear
- (C) Grapes
- (D) Mangosteen

11. Many of the fungi which causes post-harvest disease belong to the phylum

- (A) Ascomycota
- (B) Zygomycota
- (C) Basidiomycota
- (D) Glomeromycota

12. T-3, Tarai-4, Kalpi-6, Bhagya and B-1 are varieties of

- (A) Sweet potato
- (B) Castor
- (C) Niger
- (D) Groundnut

13. Devine is a

- (A) Chemical fertilizer
- (B) Bio-fertilizer
- (C) Bio-herbicide
- (D) Pesticide

14. Kalipatti, Vanjeet and Dhola Diwani are cultivars of

- (A) Sapota
- (B) Mango
- (C) Banana
- (D) Guava

15. 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

16. Yellow Stem Borer (*Scirpophaga incertulas*) damages the crop of

- (A) Soybean
- (B) Mustard
- (C) Maize
- (D) Rice

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

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

18. 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

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

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

20. 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

21. 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

22. Red rust of tea is

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

23. Chemically silk is made of

- (A) Hemicellulose
- (B) Proteins
- (C) Lipids
- (D) Cellulose

24. 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

25. Pinching is an important operation in successful production of

- (A) Jasmine
- (B) Anthurium
- (C) Carnations
- (D) Chrysanthemum

26. 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

27. 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

28. Aroma compound Isothiocyanates are present in

- (A) Lemon
- (B) Radish
- (C) Unripe Apple
- (D) Ripe Banana

29. 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

30. Which of the following fruit is Non-climacteric?

- (A) Sapota
- (B) Guava
- (C) Peach
- (D) Cherry

31. 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

32. 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

33. 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

34. Avocado originated in

- (A) South Africa
- (B) Central America
- (C) Indonesia
- (D) Venezuela

35. *Bombyx mori* feeds on

- (A) *Quercus serrata*
- (B) *Terminalia arjuna*
- (C) *Morus alba*
- (D) *Ricinus communis*

36. Wood of Angiosperms is known as porous wood due to presence of

- (A) Fibres
- (B) Broad rays
- (C) Vascular tracheids
- (D) Vessels

37. Which one of the following yield is an extremely durable timber?

- (A) *Tectona grandis*
- (B) *Adina cordifolia*
- (C) *Dalbergia paniculata*
- (D) *Toona ciliata*

38. 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

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

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

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

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

41. Dammars are obtained from family

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

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

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

43. 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

44. *Alternaria crassa* is a mycoherbicide for

- (A) *Aeschynomene aspera*
- (B) *Eichhornia* spp.
- (C) *Datura stramonium*
- (D) *Sorghum halepense*

45. Forest regenerated from seeds are

- (A) High forest
- (B) Coppice Forest
- (C) Normal forest
- (D) Production forest

46. *Fusarium* sp., *Diplodia natalensis* and *Macrophomina phaseolina* cause dry root rot of

- (A) Citrus
- (B) Mango
- (C) Guava
- (D) Pineapple

47. Which of the following species is heavily tapped for resins in India?

- (A) *Pinus roxburghii*
- (B) *Pinus wallichiana*
- (C) *Pinus kesiya*
- (D) *Pinus sylvestris*

48. Which of the following species is restricted to Eastern Himalaya?

- (A) *Cedrus deodara*
- (B) *Abies pindrow*
- (C) *Pinus merkusii*
- (D) *Pinus gerardiana*

49. Which timber species is highly refractory?

- (A) *Sterculia vilosa*
- (B) *Trewia nudiflora*
- (C) *Mangifera indica*
- (D) *Syzygium cumini*

50. The fog formed by condensation of warm moist air is

- (A) Frontal fog
- (B) Radiation fog
- (C) Advectional fog
- (D) Precipitation fog

51. Frankincense or olibanum is obtained from

- (A) *Boswellia carterii*
- (B) *Boswellia serrata*
- (C) *Callitris quadrivalvis*
- (D) *Ferula assafoetida*

52. Which layer of Earth's atmosphere contains most of the satellites orbiting Earth?

- (A) Mesosphere
- (B) Exosphere
- (C) Stratosphere
- (D) Troposphere

53. *Triticum durum* is a

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

54. Myrobalans yield a

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

55. The normal size of herbarium sheet is

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

56. *Rhizobium* species suitable for soybean is

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

57. Annatto dye is obtained from

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

58. Kamela powder dye is obtained from

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

59. Which silk is specific to state of Assam?

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

60. Gelatinous fibres are present in

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

61. Which fruit is referred as false fruit?

- (A) Apple
- (B) Strawberry
- (C) Plum
- (D) Grape

62. *Plasmodiophora brassicae* causes

- (A) Finger and toe disease of Crucifers
- (B) Powdery mildew of mustard
- (C) Downy Mildew of Cauliflower
- (D) Rust of Carrot

63. 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

64. 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

65. 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

66. Zabo system of farming through rain water harvesting is practiced in

- (A) Odisha
- (B) Nagaland
- (C) Bihar
- (D) U.P

67. Cut flowers are harvested

- (A) with stalk
- (B) without stalk
- (C) with leaves
- (D) with whole plant

68. 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

69. National Research Centre for Agroforestry is located in

- (A) Hisar
- (B) Trichy
- (C) Nagpur
- (D) Jhansi

70. Which silk is also called peace silk?

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

71. The ornamental plant 'Bird of Paradise' is

- (A) Annual
- (B) Biennial
- (C) Woody perennial
- (D) Herbaceous perennial

72. The rotation period of *Mangifera indica* is

- (A) < 5 years
- (B) 6-15 years
- (C) 16-25 years
- (D) 26-60 years

73. Which of the following is used as a green manure before transplanting rice?

- (A) *Pongamia*
- (B) *Azolla*
- (C) *Bacillus*
- (D) *Rhizobium*

74. July Elberta is a promising variety of

- (A) Pear
- (B) Apple
- (C) Peach
- (D) Mango

75. 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

76. Which of the following is a monopodial Orchid?

- (A) *Oncidium*
- (B) *Arachnis*
- (C) *Cattleya*
- (D) *Dendrobium*

77. Katha is produced from the heartwood of

- (A) *Acacia senegal*
- (B) *Acacia mangium*
- (C) *Acacia catechu*
- (D) *Acacia modesta*

78. Kharif Crops are harvested during

- (A) June to July
- (B) September to October
- (C) April to June
- (D) October to November

79. 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

80. National Programme for Organic Production comes under

- (A) Ministry of Agriculture
- (B) Ministry of Commerce
- (C) Ministry of Health
- (D) Ministry of External affairs

81. The branch of horticulture which deals on vegetables is

- (A) Floriculture
- (B) Pomology
- (C) Arboriculture
- (D) Olericulture

82. 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*

83. In India two species of Whiteflies *Aleurolobus barodensis* and *Neomaskellia bergii* damage

- (A) Maize
- (B) Wheat
- (C) Barley
- (D) Sugarcane

84. The largest chilli growing state in India is

- (A) Maharashtra
- (B) Karnataka
- (C) Andhra Pradesh
- (D) Punjab

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

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

86. 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

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

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

88. 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

89. 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

90. 'Hortus' meaning garden is a

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

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

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

92. Silkworm disease 'muscardine' is caused by

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

93. *Setaria italica* is commonly known as

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

94. Taungya system was introduced to India in 1890 by

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

95. 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

96. Stem or foot rot of papaya is caused by

- (A) *Rosellinia nectaris*
- (B) *Pythium myriotylum*
- (C) *Phytophthora cactorum*
- (D) *Pythium aphanidermatum*

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

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

98. 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

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

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

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

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