

212/2010

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Centre of origin of rubber :

- (A) Srilanka (B) India
(C) Malaysia (D) Brazil ✓

2. Powdery mildew of rubber is caused by :

- (A) *Phytophthora* (B) *Odium*
(C) *Corticium* (D) *Corynespora*

3. Fertilizer recommended for local varieties of tapioca :

- (A) 75 : 75 : 75 (B) 100 : 100 : 100
(C) 50 : 100 : 150 (D) 50 : 50 : 50 ✓

4. Best crop suited for intercropping with tapioca :

- (A) Ground nut ✓ (B) Cowpea
(C) Banana (D) Amaranthus

5. Cassava mosaic virus is transmitted by :

- (A) Aphid (B) Mealy bug
(C) White fly ✓ (D) Thrips

6. Bunchy top disease of banana is transmitted by :

- (A) Aphid ✓ (B) Mealy bug
(C) White fly (D) Thrips

7. Banana variety resistant to Panama wilt :

- (A) Njalipoovan ✓ (B) Dwarf cavendish
(C) Robusta, (D) Monthan

8. Scientific name of rock bee :

- (A) *Apis mellifera* (B) *Apis florea*
(C) *Apis dorsata* ✓ (D) *Apis cerana indica*

9. Species of honey bee resistant to Thai sac brood virus is :
- (A) Rock bee (B) Italian bee ✓
(C) Indian bee (D) Mosquito bee
10. It is economic to begin tapping when 70% of the trees in the selected area attained standard girth of 50 cm at a height of :
- (A) 100 cm (B) 125 cm ✓
(C) 110 cm (D) 105 cm
11. Most suitable cover crop in rubber plantation is :
- ✓(A) Calapagonium ✓ (B) Puereria
(C) Mucuna (D) Daincha
12. Relative humidity of atmosphere can be found out by using :
- (A) Maximum thermometer (B) Wet bulb thermometer ✓
(C) Minimum thermometer (D) Dry bulb thermometer
13. Intervenal chlorosis of leaves is due to the deficiency of :
- (A) Ca (B) P
(C) Mg ✓ (D) All the above
14. Example of pre-emergent herbicide :
- (A) Butachlor (B) Paraquat
(C) ✓ 2, 4, D ✓ (D) Both (A) and (C)
15. Example for ratoon crop :
- (A) Rice (B) Sugarcane ✓
(C) Potato (D) Both (B) and (C) ✓
16. Parentage of Kerassree :
- (A) WCT × COD (B) WCT × MYD
(C) WCT × Gangabondham (D) CGD × WCT
17. Mean copra content for mother palm should be a minimum of :
- (A) 120 gm/nut (B) 130 gm/nut
(C) ✓ 140 gm/nut (D) 150 gm/nut ✓

18. Flacidity and ribbing of leaflets is a typical symptom in case of :
 (A) Tanjavore wilt (B) Bud rot
 (C) Root wilt ✓ (D) All the above
19. Which branch is used for making bush pepper?
 (A) Orthotropic (B) Runner
 (C) Plagiotropic ✓ (D) Geotropic
20. Abnormal leaf fall of rubber is due to :
 (A) *Phylophthora palmivora* (B) *Phylophthora meadii* ✓
 (C) Both of these (D) None of these
21. Kalpaka is a variety of :
 (A) Tapioca ✓ (B) Pepper
 (C) Banana (D) Coconut
22. Kokkan disease of banana is caused by :
 (A) Fungus (B) Bacteria ✓
 (C) Virus ✓ (D) Physiological disorder
23. Pick out concentrated organic manure from the following :
 (A) Neem cake (B) Blood meal
 (C) Fish meal (D) All the above ✓
24. Azolla is :
 (A) Fresh water algae (B) Marine water algae
 (C) Fresh water fern ✓ (D) Marine water fern
25. Centre of origin of coconut :
 (A) Malaysia (B) South East Asia
 (C) South West Asia ✓ (D) Philippines
26. Most popular rubber variety grown in Kerala :
 (A) PB 86 (B) RRII 628
 (C) TJIR 1 (D) RRII 105 ✓

27. Anticoagulant used in rubber processing :
- (A) Ammonia ✓
 (C) Ammonium sulphate
- ✗(B) Ammonium chloride
 (D) All of these
28. Centre of origin of Tapioca :
- ✓(A) Thailand
 (C) Brazil ✓
- (B) China
 (D) Indo-Burma
29. Size composition of silt particle :
- (A) 2 mm to 0.05 mm
 (B) 0.05 mm to 0.02 mm ✓
 (C) <0.02 mm
 (D) None of these
30. Food storage tissue of seed is called :
- (A) Embryo
 (C) Seed coat
- ✓(B) Cotyledon ✓
 (D) None of these
31. National Research Centre for Cashew is located at :
- (A) Puttur ✓
 (C) Vittal
- (B) Madakkathara
 ✓(D) Kasaragod
32. Seed act was passed in the year :
- (A) 1956
 (C) 1959
- (B) 1966 ✓
 ✓(D) 1969
33. Tag colour used for foundation seed :
- (A) Purple
 ✓(C) White ✓
- (B) Blue
 (D) Yellow
34. The term 'mother seed' is known for :
- (A) Breeder seed
 (C) Registered seed
- (B) Foundation seed ✓
 ✓(D) Certified seed

35. Which method of irrigation is more economical when the quantity of water is limited?
(A) Flooding (B) Sprinkler irrigation
(C) Drip irrigation (D) None of these
36. International Rice Research Centre (IRRC) is located at :
(A) India (B) Indonesia
(C) Thailand (D) Philippines
37. Rice variety 'Nila' is a :
(A) Early Duration crop (B) Medium duration
(C) Late duration (D) Not a variety, but cultivar
38. Seed rate of rice for dibbling is :
(A) 80-90 kg/ha (B) 70-75 kg/ha
(C) 50-60 kg/ha (D) 100 kg/ha
39. Fertilizer recommendation for high yielding medium duration rice :
(A) 40 : 20 : 20 (B) 60 : 30 : 30
(C) 70 : 35 : 35 (D) 90 : 45 : 45
40. Varinellu (wild rice) is a :
(A) Sedge (B) Fern
(C) Broad leaved weed (D) None of these
41. Laxmi disease of rice is caused by :
(A) Fungus (B) Bacteria
(C) Phytoplasma (D) Virus
42. Method of propagation commonly used in rose :
(A) Cutting (B) Layering
(C) Budding (D) Both (A) and (C)
43. Type of budding used in rubber :
(A) Patch budding (B) 'T' budding
(C) Ring budding (D) All the above

44. Study of cause of plant disease is known as :
(A) Etiology ✓ (B) Epidemiology
(C) Plant pathology (D) None of the above
45. Use of light trap for pest control is a :
(A) Physical method ✓ (B) Cultural method
(C) Modern technique (D) All the above
46. MNREGA is a :
(A) Watershed development programme
(B) Employment guarantee programme
(C) Productivity improvement programme
(D) Rural electrification guarantee programme
47. Chemical name of Insecticide Formulation Sevin 5% DP :
(A) Endosulfan (B) Carbofuran
(C) Carbaryl (D) Dimethoate
48. 'Phorate' is a :
(A) Acaricide (B) Nematicide ✓
(C) Rodenticide (D) All the above
49. Highly toxic insecticide is indicated by the colour code :
(A) Bright Red (B) Bright Yellow ✓
(C) Bright Blue (D) Bright Green
50. Example for a dual purpose Indian breed :
(A) Sindhi (B) Sahival
(C) Nagore (D) Ongole ✓
51. Variety of poultry most suited for homestead of Kerala :
(A) Aseel (B) Ghagus
(C) Giriraj (D) White leghorn

52. Marginal drying leaves is a deficiency symptom of which element?

(A) Fe

(B) Ca

~~(C) Mg~~

(D) K ✓

53. The original dwarf variety of wheat which triggered green revolution was :

(A) Sarbati sonora

~~(B) Sonalika~~

(C) Lerma rojo

(D) Norin 10 ✓

54. The book 'Silent Spring' was written by :

(A) Rachael Carson ✓

(B) M.S. Swaminathan

(C) Michael Moore

(D) P. Sainath

55. The driage (drying percentage) of Karimunda variety of pepper is :

(A) 50%

(B) 40%

~~(C) 30%~~

(D) 15%

56. The founder of white revolution in India is :

~~(A) M.S. Swaminathan~~

(B) Varghese Kurien ✓

(C) Punjab Singh

(D) Mangala Rai

57. Alkaline soils can be ameliorated by adding :

(A) Gypsum ✓

~~(B) Lime~~

(C) Zinc Sulphate

(D) Borax

58. Air layering is commonly practised in :

(A) Mango

✓(B) Guava

(C) Cashew

~~(D) All of these~~

59. Indian Institute of Spices Research (IISR) is located at :

(A) Calicut ✓

~~(B) Ahmedabad~~

(C) Thiruvananthapuram

(D) Bangalore

60. The fungus used for coir pith composting is :

- (A) Pleurotus ✓ (B) Ganoderma
(C) Trichoderma (D) All of these

61. Queen cells are usually constructed at which part of the comb?

- (A) Upper periphery (B) Lower periphery
(C) At the middle (D) All of these

62. Term 'agriculture' is derived from Latin word 'Ager' which means :

- (A) Flora (B) Fauna
(C) Soil ✓ (D) Crop

63. Vertical section of soil from the surface is termed as :

- (A) Soil profile ✓ (B) Soil horizon
(C) Soil layer (D) None of these

64. Percentage of mineral constituents in soil :

- (A) 50% ✓(B) 45%
(C) 55% (D) 60%

65. Name the constituted element in many of the fungicides which creates acidic condition in soil :

- (A) Mg (B) S
(C) Fe ✓ (D) H

66. Most prominent soil found in Kerala :

- ✓(A) Laterite soil ✓ (B) Coastal alluvium
(C) Forest soil (D) None of these

67. Soil best suited for cotton cultivation :

- (A) Laterite soil ✓(B) Black soil ✓
(C) Both of these (D) None of these

68. Erosion that resulted from human disturbance are termed as :
- (A) Geologic erosion (B) Rill erosion
(C) Accelerated erosion ✓ (D) Steady erosion
69. Seed which produced in low quantity :
- (A) Certified seed (B) Breeder seed ✓
(C) Foundation seed (D) Registered seed
70. Type of irrigation suitable for widely spaced crop :
- (A) Flooding (B) Strip irrigation ✓
(C) Basin or ring method ✓ (D) Furrow method
71. Critical stage of water requirement of paddy :
- (A) Tillering (B) Panicle initiation
(C) Both (A) and (B) ✓ (D) None of these
72. Suitable pH range for rice cultivation :
- (A) 3.5 – 5 (B) 5 – 8.5 ✓
(C) 8.5 – 10 (D) All of these
73. For increasing the fertilizer use efficiency of urea in wet land rice cultivation, neem cake is mixed with urea in the ratio of :
- (A) 1 : 6 (B) 1 : 1
(C) 1 : 4 (D) 1 : 5
74. Spacing for medium duration 1st crop of rice :
- (A) 15 × 10 cm (B) 20 × 15 cm ✓
(C) 20 × 10 cm (D) 20 × 20 cm
75. *Salvinia molesta* (Africal payal) can be controlled biologically using :
- (A) Grass hopper (B) Caterpillar
(C) Weevil ✓ (D) Beetle
76. Bengal famine was primarily due to the paddy crop failure caused by :
- (A) Blast disease (B) Sheath blight
(C) Sheath rot (D) Brown leaf port ✓

77. Dead heart symptom in rice is caused by :
- (A) Rice stem borer ✓ (B) Gall midge
(C) Brown plant hopper ✓ (D) Rice bug
78. Tube rose is propagated by :
- (A) Cutting (B) Bulb ✓
(C) Corms (D) Tubers
79. Pineapple is propagated by :
- (A) Tubers (B) Suckers ✓
(C) Layering (D) None of these
80. Chemical name of grammaxone 20% EC :
- (A) Butachlor (B) Diuron
(C) 2, 4, D (D) Paraquat
81. Agrimycin is an _____ antibiotic
- ✓(A) Antifungal ✓ (B) Antibacterial
(C) Antiviral (D) None of these
82. Biocontrol agent most effective against quick wilt of pepper :
- (A) *Trichoderma* ✓
(B) *Pseudomonas fluorescens*
(C) Arbuscular Mycorrhizal Fungi (AMF)
(D) *Aspergillus*
83. 1% Bordeaux mixture is prepared by mixing 1 kg of CuSO_4 and 1 kg lime in :
- (A) 100 litre water each (B) 100 litre water together ✓
(C) 50 litre water each (D) 10 litre water each
84. Method demonstration is _____ type of extension teaching method
- (A) Individual contact method (B) Group contact ✓
(C) Mass contact (D) Both (A) and (B)

85. Commercial Pheromone lure used for controlling banana rhizome weevil :
 (A) Ferrolure (B) Rhinolure
 (C) Odolure ✓ (D) Cosmolure
86. In a honey bee colony, drones are :
 (A) Fertile females (B) Imperfectly developed females
 (C) Fertile males ✓ (D) Imperfectly developed males
87. Soil horizon where parent material is seen :
 (A) A horizon (B) B horizon
 (C) C horizon ✓ (D) Both (A) and (B)
88. Study of grass cultivation for animal consumption is called :
 (A) Agrostology ✓ (B) Crop husbandry
 (C) Agro forestry (D) Grassology
89. The common weed in wet land rice ecosystem is :
 (A) Echinochloa ✓ (B) *Panicum repens*
 (C) *Ageratum conyzoides* (D) *Physalis minima*
90. The cultivation of trees for their beauty or recreational value is termed as :
 (A) Horticulture (B) Herbericulture ✓
 (C) Floriculture (D) Arboriculture ✓
91. The collective state of atmosphere within a specified interval of time and space of a locality is :
 (A) Weather ✓ (B) Climate
 (C) Temperature (D) Monsoon
92. The instrument used for measuring intensity of light :
 (A) Barometer (B) Sun shine recorder ✓
 (C) Luxmeter ✓ (D) Anemometer

93. Number of essential elements required by plants for their growth :

(A) 16 ✓

✓(B) 17

(C) 18

(D) 19

94. Hooked terminal bud is caused by the deficiency of which element?

(A) Mg

(B) B

(C) Fe

(D) Ca

95. Rock phosphate is a :

(A) Straight Fertilizer ✓

(B) Complex

(C) Mixed Fertilizer

✓(D) Biofertilizer

96. Blue green algae under ideal conditions fixes _____ kg N/ha

(A) 10–15

✓(B) 25–30

(C) 30–35

(D) 15–20

97. The destructive protozoan disease of silk worm is :

(A) Grasserie

✓(B) Pebrine ✓

(C) Muscardine

(D) Flacherie

98. *Goniozus nephntidis*, larval parasitoid is released for the biological control of which pest of coconut?

(A) Rhinoceros beetle

(B) Red palm weevil

(C) Leaf eating caterpillar

✓(D) Coconut eriophyid mite

99. Stem bleeding of coconut is caused by :

(A) *Phytophthora palmivora*

✓(B) *Thielaviopsis paradoxa*

✓(C) *Ganoderma lucidum*

(D) *Phytoplasma*

100. World's first pepper hybrid :

✓(A) Panniyur-1 ✓

(B) Thevam

(C) Panchami

✓(D) Karimunda