

043/2016

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Common propagation technique adopted for mango :
(A) Air layering (B) Tongue grafting
(C) Stone grafting (D) Cutting
2. Best planting material for banana :
(A) Peeper sucker (B) Sword Sucker
(C) Water Sucker (D) Male bud
3. Fruit crop with maximum share of production :
(A) Apple (B) Banana
(C) Mango (D) Citrus
4. Rootstock inducing dwarfness in citrus :
(A) Cleopatra mandarin (B) Rough Lemon
(C) Swingle citrumelo (D) Trifoliate orange
5. Popular white coloured seedless grape :
(A) Thompson seedless (B) Gulabi
(C) Sharad Seedless (D) Bangalore Blue
6. Popular tender coconut variety :
(A) West coast tall (B) Chavakkad Orange Dwarf
(C) Chandrakalpa (D) Pratap
7. In triangular system of planting with a spacing of 7.6 m, number of coconut palms accommodated in one hectare :
(A) 280 (B) 220
(C) 198 (D) 170

8. Leading coffee exporting country in the world :
- (A) Vietnam (B) Brazil
(C) India (D) China
9. King of spice :
- (A) Cardamom (B) Saffron
(C) Black pepper (D) All spice
10. Leading turmeric producing state in India :
- (A) Andhra Pradesh (B) Keralam
(C) Tamil Nadu (D) Karnataka
11. Most important disease of solanaceous crops in Kerala :
- (A) Fusarium wilt (B) Mosaic
(C) Fruitrot (D) Bacterial wilt
12. Preethi is a popular variety of :
- (A) Pumpkin (B) Bitter gourd
(C) Snake gourd (D) Ash gourd
13. Yellow fleshed seedless watermelon developed from Kerala Agricultural University :
- (A) Sugar Baby (B) Arka Manik
(C) Shonima (D) Swarna
14. Dioecious cucurbit crop :
- (A) Coccinia (B) Bitter gourd
(C) Pumpkin (D) Ash gourd
15. Richest source of vitamin A :
- (A) Cabbage (B) Bhindi
(C) Capsicum (D) Drumstick leaves

16. Days taken for the germination of chilli seed :
- (A) 2 (B) 3
(C) 12 (D) 8
17. Common prapagule for gladiolus :
- (A) Corm (B) Sucker
(C) Rhizome (D) Bulb
18. Most ideal jasmine species suitable for cultivation in Kerala :
- (A) *Jasminum grandiflorum* (B) *J. auriculatum*
(C) *J. sambac* (D) *J. multiflorum*
19. Monopodial orchid commonly grown in Kerala :
- (A) Vanda (B) Dendrobium
(C) Cattleya (D) Oncidium
20. Thornless rose rootstock developed from IIHR, Bangalore :
- (A) Sukumari (B) Sharada
(C) Nishkant (D) Mrinalini
21. Type of selection done from a germplasm collection for the individuals with extreme phenotype of a trait :
- (A) Disruptive selection (B) Directional selection
(C) Environmental selection (D) Stabilizing selection
22. When velocity of fast neutron mutagen is reduced by hard water then it is termed as :
- (A) Thermal neutron (B) Elastic neutron
(C) Hard neutron (D) Excited neutron
23. 'D' genome of *Triticum aestivum* is derived from which species :
- (A) *Triticum monococcum* (B) *Aegilops tauschii*
(C) *Aegilops speltoides* (D) *Triticum turgidum*

24. Yellow coloured seedless watermelon released from Kerala Agricultural University :
- (A) Swetha (B) Shonima
(C) Neelima (D) Swarna
25. If male sterility of a line in hybrid seed production is maintained by altering the temperature it is known as :
- (A) One line breeding (B) Two line breeding
(C) Three line breeding (D) Mutation breeding
26. Hybrid rice :
- (A) Matta Thriveni (B) Jaya
(C) Uma (D) CORH 1
27. Average husked nut size required while selecting mother palm in coconut :
- (A) 350 g (B) 420 g
(C) 570 g (D) 720 g
28. World's first GMS based hybrid in pigeon pea :
- (A) GT 101 (B) ICPH 8
(C) CSH 10 (D) PHB 11
29. Sesamum variety released for summer rice fallow in sandy tract :
- (A) Thilak (B) Soma
(C) Surya (D) Kayamkulam 1
30. Multiple hybrid of tapioca :
- (A) Sree Visakhram (B) Sree Jaya
(C) Sree Sahya (D) Sree Rekha
31. National Seed Corporation (NSC) was established during the year :
- (A) 1966 (B) 1973
(C) 1963 (D) 2004

32. Breeder seeds are produced from :
- (A) Nucleus seeds (B) Certified seeds
(C) Foundation seeds (D) Registered seeds
33. Genetic purity of a seed means :
- (A) Absence of inert matter (B) Absence of weed seed
(C) Absence of other variety seeds (D) Absence of defective seeds
34. Maximum amount of weed seed permitted in rice seed for getting certified :
- (A) 0 seeds / kg (B) 20 seeds / kg
(C) 5 seeds / kg (D) 15 seeds / kg
35. Isolation distance for seed production in sorghum :
- (A) 3 m (B) 1000 m
(C) 200 m (D) 1500 m
36. Unique feature of PPVFR Act (2001) not provided in UPOV Act (1991) :
- (A) Registration of extant variety
(B) Commercial use of all material of the protected variety
(C) Provision for farmers privilege
(D) Protection of varieties of nationally recognized plant species
37. Under UPOV 1991 Act, the criteria that a plant variety need not satisfy for protection :
- (A) Novelty (B) Distinctiveness
(C) Uniformity (D) Suitability
38. The first product in India to bag Geographical Indication :
- (A) Malabar pepper (B) Allepy turmeric
(C) Darjeeling tea (D) Palakadan Matta
39. In India Bio Diversity Act was enacted during the year :
- (A) 2000 (B) 1998
(C) 2015 (D) 2002

40. Trade Related Intellectual Property Right (TRIPs) agreement forms a part of which round of GATT :
- (A) Paris (B) Uruguay
(C) Geneva (D) Kolkatta
41. Vector of Yellow vein mosaic disease in bhindi :
- (A) White flies (B) Aphids
(C) Mites (D) Thrips
42. The fungal bioagent used for the management of coconut rhinoceros beetle :
- (A) *Beauveria bassiana* (B) *Metarhizium anisopliae*
(C) *Lecanicillium lecanii* (D) *Oryctes rhinoceros*
43. Yellow sticky trap is used for the management of :
- (A) Moths and butterflies (B) Small beetles and bugs
(C) Crickets and grass hoppers (D) Aphids and whiteflies
44. Common predators of aphid colonies :
- (A) Coccinellid beetles (B) Parrots
(C) Squirrels (D) Mirid bugs
45. The pest that can be controlled using Bt brinjal :
- (A) Brinjal lace wing (B) Brinjal mealy bug
(C) Brinjal fruit and shoot borer (D) Brinjal scales
46. Scientific name of little bee is :
- (A) *Apis cerana* (B) *Apis mellifera*
(C) *Apis florea* (D) *Tetragonula iridipennis*
47. A viral disease that affects sericulture is :
- (A) Grasserie (B) Pebrine
(C) Muscardine (D) Influenza

48. The insect vector of dengue fever is :
- (A) *Aedes aegypti* (B) *Anopheles sp.*
 (C) *Culex sp.* (D) All the three
49. Carbofuran 3G is now temporarily substituted by :
- (A) Carbosulfan 6 (B) Phorate 10 G
 (C) Fipronil 0.3G (D) Malathion
50. The recent ban of red labeled insecticides was imposed in Kerala in :
- (A) 2015 (B) 2012
 (C) 2013 (D) 2011
51. A BPH tolerant variety of rice :
- (A) Jyothi (B) Aruna
 (C) Uma (D) Kanchana
52. The pest that affects export quality of mango fruits :
- (A) Stem and fruit borer (B) Hoppers
 (C) Fruit fly (D) Nut weevil
53. Scientific name of coconut eriophyid mite :
- (A) *Tetranychus urticae* (B) *Aceria guereronis*
 (C) *Paradasynus rostratus* (D) *Oligotetranychus sp.*
54. Katte disease of cardamom is caused by :
- (A) Protozoa (B) Bacteria
 (C) Virus (D) Fungus
55. A biocontrol agent used for the management of quick wilt of pepper :
- (A) *Pseudomonas flourescens* (B) *Trichoderma viride*
 (C) VAM (D) PGPR
56. Which of the following is a systemic fungicide?
- (A) Zineb (B) Mancozeb
 (C) Carbendazim (D) Ediphenphos

57. The trade name of copper oxychloride is :
- (A) Contaf (B) Bavistin
(C) Dithane (D) Fytolan
58. Which of the new generation insecticide belongs to neonicotinoid group?
- (A) Flubendiamide (B) Hexaconazole
(C) Spinosad (D) Acetamiprid
59. The causal organism of panama wilt in banana :
- (A) *Fusarium pallidoroseum* (B) *Fusarium oxysporum*
(C) *Fusarium equiseti* (D) All the three
60. Drying of leaves back from the tip, curling and undulated yellowish necrosis in rice is the symptom of :
- (A) Sheath blight (B) Bacterial leaf blight
(C) Leaf scald (D) Stack burn
61. The Central Research Institute for Dryland Agriculture is located at :
- (A) Bangalore (B) Rayalaseema
(C) Hyderabad (D) Dharwad
62. The process of movement of free water from the surface into the soil is called :
- (A) Infiltration (B) Percolation
(C) Seepage (D) Interflow
63. The surface irrigation method used for irrigating most of the rice in the world is :
- (A) Flood irrigation (B) Check basin method
(C) Border irrigation (D) Ring basin method
64. _____ is a selective herbicide used for controlling grasses, especially *Echinochloa* in rice.
- (A) 2,4 - D (B) Glyphosate
(C) Bispyribac sodium (D) Cyhalofop butyl
65. The Calcium Carbonate Equivalency (CCE) of _____ is 100.
- (A) Dolomite (B) Calcite
(C) Hydrated lime (D) Quick lime

66. Cattle which feed on _____ deficient fodder crops may develop grass tetany.
 (A) Magnesium (B) Potassium
 (C) Sulphur (D) Calcium
67. The organism used for composting coir pith is :
 (A) Pseudomonas (B) Trichoderma
 (C) Beauveria (D) Pleurotus
68. Chlorimuron ethyl + Metsulfuron methyl is a herbicide used in areas where _____ weed is a problem.
 (A) Fimbristylis (B) Sacciolepis
 (C) Marselia (D) Ludwigia
69. Decrease in water potential caused by the adsorption of water to soil surfaces is called :
 (A) Pressure potential (B) Matric potential
 (C) Osmotic potential (D) Gravitational potential
70. The first reported occurrence of herbicide resistance in India was that of the weed _____ in wheat to Isoproturon.
 (A) *Avena fatua* (B) *Chenopodium album*
 (C) *Phalaris minor* (D) *Melilotus alba*
71. MO-21, the non-lodging photoinsensitive semi-tall variety suitable for Kuttanad is known as :
 (A) Prathyasha (B) Samyuktha
 (C) Manupriya (D) Chingam
72. Nitrogen content of oil seeds is calculated by dividing the protein content by the factor :
 (A) 2.86 (B) 6.25
 (C) 4.38 (D) 5.85
73. The protein content of soyabean is _____%.
 (A) 20-24 (B) 40-43
 (C) 30-35 (D) 10-15
74. The anti-nutritional factor present in the oil of rapeseed and mustard is :
 (A) Hydrocyanic acid (B) Calcium oxalate
 (C) Erucic acid (D) Ricinine

75. The total land area required under sole cropping to give the same yields obtained in the intercropping mixture is called :
- (A) Land equivalent ratio (B) Competition ratio
(C) Relative crowding co-efficient (D) Income equivalent ratio
76. The bacteria used for incorporating genes in the production of golden rice is :
- (A) *Agrobacterium tumefaciens* (B) *Aspergillus fumigatus*
(C) *Azospirillum brasiliensis* (D) *Erwinia uredovora*
77. The Indian Institute of Pulses Research is located at :
- (A) Lucknow (B) Hyderabad
(C) Bangalore (D) Kanpur
78. The gross area under rice in Kerala is _____ lakh ha.
- (A) 2.24 (B) 1.56
(C) 1.98 (D) 3.54
79. The domesticated species of sugarcane is :
- (A) *Saccharum barberi* (B) *Saccharum officinarum*
(C) *Saccharum sinense* (D) *Saccharum spontaneum*
80. Hybrid Napier is a hybrid of :
- (A) Bajra × Napier (B) Sorghum × Napier
(C) Napier × Congo signal (D) Guinea grass × Napier
81. The science deals with the study about snakes is known as :
- (A) Filicology (B) Otology
(C) Ophelology (D) Apilology
82. Which is the largest taluk in Kerala?
- (A) Ponnani (B) Palakkad
(C) Ottappalam (D) Eranad
83. Which among the following metals is known as 'Quick Silver'?
- (A) Mercury (B) Cromium
(C) Argon (D) Silicon

84. Which day is celebrated as International non-violence day by the UNO?
(A) January 30 (B) October 2
(C) December 10 (D) November 14
85. The head quarters of National Intelligence Agency in Kerala :
(A) Kochi (B) Thiruvananthapuram
(C) Kozhikkode (D) Trissur
86. The first Indian state to get Nirmal Gram Award :
(A) Punjab (B) Jammu Kashmir
(C) Sikkim (D) Haryana
87. Which state has the largest coast line in India?
(A) Kerala (B) Gujarat
(C) Andhra Pradesh (D) Tamilnadu
88. National emergency can be declared by the president only :
(A) On ground of external aggressions
(B) On the basis of recommendation of the cabinet
(C) On ground of war
(D) On ground of internal disturbance
89. The idea of constitution of India was first of all given by :
(A) Dr. B. R. Ambedkar (B) M.N. Roy
(C) Dr. Radha Krishnan (D) V.K. Krishna Menon
90. Who was the first elected vice president of India?
(A) Dr. Zakkir Hussain (B) Dr. Rajendra Prasad
(C) V.V. Giri (D) Gyani Sail Sing
91. Who was the power to dissolve the Lok Sabha?
(A) Prime Minister (B) Cheif Justice of India
(C) Vice President (D) President
92. The writer who won the Kendra Sahitya Academy award 2014?
(A) P. Narayanakurup (B) K.R. Meera
(C) Subhash Chandran (D) Sachidanandan

93. Who is the author of the Book 'Voice from Chernobill'?
- (A) Swetlana Alaxeevich (B) Vole Soyinka
(C) Selma Lagerlof (D) Linus Pauling
94. The Jnana Pita Award was given for the first time in :
- (A) 1961 (B) 1956
(C) 1970 (D) 1965
95. Who was the editor of the Journal 'Mitavadi'?
- (A) C.V. Kunju Raman (B) T.K. Madhavan
(C) C. Krishnan (D) Ramakrishna Pillai
96. The British Governor who issued orders permitting Channar women to weal Jacket and Pinafore :
- (A) Colonel Mouroe (B) Lord Haris
(C) Lord William Bentick (D) Lord Macaulary
97. Who was the founder of 'Atma Vidya Sangam'?
- (A) Ayyankali (B) Brahmananda Sivayogi
(C) Dr. Palpu (D) Vagbhadananda
98. The Temple Entry Proclamation in Kochi was issued in the year :
- (A) 1951 (B) 1948
(C) 1938 (D) 1940
99. The present number of Block Panchayaths in Kerala :
- (A) 152 (B) 150
(C) 164 (D) 161
100. Which is the 11th Railway line in Kerala?
- (A) Kollam-Schencottai (B) Beypore-Tirur
(C) Tirur-Kuttippuram (D) Shornnur-Kozhikkode