

126/24

Question Booklet Alpha Code

A

Question Booklet Sl. No.

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Total Number of Questions : 100

Time : 90 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY**.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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1. Select the crop suitable for ratoon cropping.
A) Banana B) Groundnut C) Coconut D) Tapioca
2. Pick out bulky organic manure from the following :
A) Bone meal B) Vermicompost
C) Groundnut cake D) None of the above
3. Acidic soils can be reclaimed by using
i. Ground limestone ii. Burnt lime
iii. Gypsum iv. Hydrated lime
A) i, ii and iv B) i, ii and iii C) ii, iii and iv D) i, iii and iv
4. Which of the following soil is an alkaline soil found in Chittur areas of Palakkad district ?
A) Red loam B) Black cotton soil
C) Laterite D) Brown hydromorphic soil
5. Calculate the quantity of urea required for 100 numbers of 25 years old coconut palms under average management.
A) 64 kg B) 84 kg C) 94 kg D) 74 kg
6. Pick out the symbiotic bacteria used as biofertilizer in leguminous plants.
A) Azotobacter B) Azospirillum C) Azolla D) Rhizobium
7. Which of the following is a primary tillage implement ?
A) Disc harrow B) Wooden plough
C) Cultivator D) None of the above
8. Which of the following are agronomic measures of water conservation ?
i. Mixed cropping ii. Contour bunding
iii. Bench terracing iv. Cover cropping
A) i and iii B) ii and iv C) i and iv D) i, ii and iv
9. Any permeable textile material that is used with soil, rock or earth to increase stability and decrease wind and water erosion is called
A) Gabions B) Check dams
C) Geotextiles D) None of the above

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20. What is the term used for the decrease in the purchasing power of money due to an increase in the general price level of goods and services in an economy ?
A) Inflation
B) Deflation
C) Stagflation
D) Hyperinflation
21. Hydrosphere accounts for _____ percent of the earth's mass.
A) 6.91
B) 71.3
C) 15.2
D) 25.8
22. Most abundant mineral in the earth's crust
A) Malachite
B) Tourmaline
C) Feldspar
D) Pyrite
23. Which of the following is correct about universal soil loss equation $A = RKLSCP$?
i. A = Soil loss per unit area
R = Rainfall factor
ii. A = Soil loss per unit area
K = Soil erodibility factor
iii. L = Slope length factor
C = Clay factor
A) Only i and ii
B) Only i and iii
C) Only ii and iii
D) All of the above (i, ii and iii)
24. Kerala is divided into _____ agroecological zones.
A) 3
B) 5
C) 7
D) 10
25. Neutralising value of CaCO_3 is
A) 179
B) 197
C) 100
D) 136
26. Which of the following is correctly matched ?
i. Sandstone-Quartzite
ii. Shale-slate
iii. Limestone-Marble
iv. Granite-Gneiss
A) i only
B) i and ii
C) i and iii
D) All the above
27. Biofertilizer recommended for wetland rice cultivation.
A) Rhizobium
B) Azolla
C) VAM
D) Azotobacter

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28. Who is known as Father of Soil Science ?
A) Dokuchev B) Joffy C) Hillgard D) Liebig
29. Which of the following is an agronomic measures of soil and water conservation ?
A) Basin listing B) Subsoiling
C) Zero tillage D) Contour bunding
30. Name the application software developed by Kerala Agricultural University for the easy calculation of the fertilizers
A) KAU FERTULATOR B) FERTILISER CALCULATOR
C) NPK FERTILISER CALCULATOR D) FERTISOLVER
31. The amount of lime required for cultivating rice in an area of 1 acre
A) 250 kg B) 240 kg C) 300 kg D) 700 kg
32. IPDM (Integrated Pest and Disease Management) includes
A) Chemical methods B) Physical methods
C) Biological methods D) All the above
33. Which of the following is an ideal cowpea variety which can be grown as a companion crop with Tapioca ?
A) PTB – 1 B) New Era C) V – 26 D) Pournami
34. Red rot disease in Sugarcane is mainly transmitted through
A) Infected setts B) Flowing water
C) Both infected setts and flowing water D) Soil
35. Which of the following is not a biopesticide developed from Tapioca ?
A) Bhagya B) Nanma C) Menma D) Shreya
36. To break the seed dormancy in Subabul which of the following treatment is practised ?
A) Dipping in con. HCl followed by hot water treatment
B) Dipping in con. H₂SO₄ followed by hot water treatment
C) Dipping in hot water
D) Dipping in con. HCl

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37. The nursery area required for producing minisetts for planting one hectare area of Tapioca
A) one acre B) 220 m² C) 500 m² D) 400 m²
38. If the recommended N : P₂O₅ : K₂O dosage for sweet potato is 75 : 50 : 50 kg/Ha, then how many kilograms of urea is required for cultivating one hectare of sweet potato ?
A) 163 kg B) 200 kg C) 204 kg D) 150 kg
39. Name the system of Rice cultivation where a mixture of seeds of non photosensitive and photosensitive variety of rice in 70 : 30 proportion is sown during virippu season.
A) Pokkali B) Onattukara
C) Kaipad D) Kuttumundakan
40. Which of the following statement is not correct about Hybrid Napier grass ?
A) Also known as elephant grass
B) It grows throughout the year in tropics
C) It can be intercropped with legumes
D) Also known as buffalo grass
41. The recommended seed rate for Tomato
A) 450 gha B) 500 gha C) 400 gha D) 350 gha
42. Apricot is a variety of
A) Vanilla B) Marigold C) Carrot D) Garlic
43. For inducement of uniform flowering in pineapple the required concentration of ethephon used to prepare aqueous solution
A) 2.5 ppm B) 0.25 ppm C) 250 ppm D) 25 ppm
44. Commonly used surface disinfectant for explants in tissue culture
A) Sodium hydrochlorite B) Potassium hypochlorite
C) Magnesium hypochlorite D) Calcium hypochlorite
45. The tolerable level of light in the tropical region for the better growth of Anthurium
A) 10% – 20% B) 30% – 40%
C) 40% – 50% D) 20% – 30%

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68. Silver shoot is caused by
A) Gall midge
B) Gundhi bug
C) Thrips
D) Aphid
69. Roundup herbicide is the trade name of
A) Butachlor
B) Oxyfluorfen
C) 2, 4-D
D) Glyphosate
70. A perennial weed that produces underground rhizomes
A) *Lantana camera*
B) *Cynodon dactylon*
C) *Mikania micrantha*
D) *Echinochloa colona*
71. A mycoherbicide is
A) Bt
B) Collego
C) NPV
D) Zygomogramma
72. Khaira disease of paddy is due to the deficiency of
A) Boron deficiency
B) Zinc deficiency
C) Calcium deficiency
D) Magnesium deficiency
73. Which among the following is not an edible mushroom ?
A) *Pleurotus* sps.
B) *Volvariella* sps.
C) *Calocybe* sps.
D) *Amanita* sps.
74. Which one among the following does not fix Nitrogen ?
A) *Rhizobium*
B) *Trichoderma*
C) *Acetobacter*
D) *Azospirillum*
75. Black heart is a physiological disorder of
A) Tomato
B) Chilli
C) Potato
D) Cabbage
76. *Striga* is included in
A) Fungi
B) Mycoplasma like organisms
C) Phanerogamic plant parasite
D) Bacteria
77. Muscardine disease of silkworm is caused by
A) *Bombyx mori* *Densonucleosis*
B) *Bacillus thuringiensis*
C) *Beauveria bassiana*
D) None of these
78. A Copper based fungicide is
A) Fytolan 50W
B) Zineb 75
C) Dithane M-45
D) Captan 75% WP

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79. Forewings of bugs is called
 A) Elytra
 B) Membraneous
 C) Halteres
 D) Hemelytra
80. The lowest population density that will cause economic damage is known as
 A) GEP
 B) ETL
 C) DB
 D) EIL
81. Only larva can cause damage in the case of
 A) Red flour beetle
 B) Rice weevil
 C) Khapra beetle
 D) Rice moth
82. Which of the following is used as Rodenticide ?
 A) Zinc Chloride
 B) Zinc Sulphide
 C) Zinc Phosphide
 D) Zinc Bromide
83. The parasitoid that successfully suppressed the Papaya Mealy bug population in Kerala
 A) Acerophagus sps.
 B) Trichopoda sps.
 C) Trichogramma sps.
 D) Anagyrus sps.
84. Which among the following is/are functions of Cultivators ?
 i. Stirring and Pulverizing soil.
 ii. Aerating and Loosening soil.
 iii. Remove Weeds.
 A) Only i and ii
 B) Only iii
 C) All of the above (i, ii and iii)
 D) Only ii
85. Identify the correct statement with regard to Disc Plough.
 i. It cuts a 'V' Shaped furrow and opens the soil but there is no inversion.
 ii. It turns furrow slice to one side with a scooping action.
 iii. Breaking hard pans in soil with less disturbance to the top layers.
 A) Only i
 B) Only ii
 C) Only iii
 D) All of the above (i, ii and iii)
86. Any sprayer which is carried on the back of the operator is called
 A) Rocker sprayer
 B) Power sprayer
 C) Knapsack sprayer
 D) Hand sprayer

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87. A hydrothermal treatment to unhulled rice to obtain gelatinized rice.
A) Parboiling
B) Milling
C) Cleaning and Hulling
D) Polishing
88. Which of the following are green house gases causing Global Warming ?
i. Carbon dioxide
ii. Methane
iii. Nitrous Oxide
A) Only i
B) Only i and ii
C) Only i and iii
D) All of the above (i, ii and iii)
89. Which Internal combustion engine uses spark ignition ?
i. Petrol Engine
ii. Diesel Engine
A) Only i
B) Only ii
C) All of the above (i and ii)
D) None of the above
90. The Photo Voltaic Cell (PV Cell) is used for converting.
A) Solar energy to electrical energy
B) Solar energy to chemical energy
C) Chemical energy to electrical energy
D) Electrical energy to light
91. Which among the following is not an advantage of drip irrigation system ?
A) Suitable for irrigating crops where plant population per unit area is very high
B) Less weed growth
C) Loss of water through evaporation and seepage is reduced
D) Suitable for areas where water is scarce
92. Application of pesticides through irrigation water
A) Fertigation
B) Chemigation
C) Irrigation
D) All of the above
93. Critical stages for irrigation of Rice
A) Preflowering stage
B) Boot stage and dough stage
C) Initial tillering and flowering
D) Grain formation

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94. Communication through TV is an example for
A) Interpersonal Communication B) Mass Communication
C) Group Communication D) Intrapersonal Communication
95. Approaches used for transfer of technology
i. Consultancy
ii. Promotional
iii. Participative
A) Only i and ii B) Only ii and iii
C) Only i and iii D) All of the above (i, ii and iii)
96. The flow of information initiates from the top level to the bottom in the organization is
A) Vertical communication B) Upward communication
C) Star communication D) Horizontal communication
97. In agricultural extension, farm and home visit is an example for
A) Individual contact method B) Group contact method
C) Mass contact method D) None of the above
98. E-extension in agriculture use
A) Internet B) Multimedia Learning system
C) Computer based training system D) All of the above
99. Identify incorrect statement regarding agricultural extension.
A) Extending scientific knowledge of agriculture to farming community
B) Increase efficiency in agricultural production
C) It is a formal education system
D) Promote community development and rural area development
100. Which among the following is a limitation of Audio Visual aid ?
A) Reduce verbalism B) Overcome language barrier
C) Speed up the process of learning D) Reduce teacher involvement

Space for Rough Work

