

SEAL

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Invigilator's signature

Question Booklet No.

100565

RT/A/DO/E EXAM.

2021

RECRUITMENT TEST

Series



Time : 2 Hours

Maximum Marks : 100

ROLL NO.

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RT/A/DO/E EXAM. 2021/127-A

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1. Which portion of sugarcane stalk should normally be used for sett purpose?
 - (A) Bottom one-third portion
 - (B) Bottom one-fourth portion
 - (C) Top one-third portion
 - (D) Entire cane
2. Glyphosate is a herbicide which acts as
 - (A) selective
 - (B) pre-emergence
 - (C) non-selective
 - (D) pre-planting
3. Which of the following soil types are suitable for cultivation of groundnut?
 - (A) Sandy loam soils
 - (B) Loam soils
 - (C) Black soils with good drainage
 - (D) All of the above
4. Crop rotation is
 - (A) growing of crops one after another
 - (B) growing more than one crop at a time
 - (C) growing of an associate crop in between the rows of main crop
 - (D) growing of crops together in the strips
5. A fertilizer which supplies two essential plant nutrients is
 - (A) urea
 - (B) MoP
 - (C) SSP
 - (D) DAP
6. Which classification of tillage involves initial major soil working operation?
 - (A) Secondary tillage
 - (B) Primary tillage
 - (C) Tertiary tillage
 - (D) Primary and secondary tillage
7. Urea containing fertilizers may be lost through a process called
 - (A) volatilization
 - (B) lime
 - (C) immobilization
 - (D) starters
8. Yellow revolution is associated with
 - (A) pulse production
 - (B) milk production
 - (C) fruit production
 - (D) oilseeds production

9. The most systematic method for classifying weeds is based on
 - (A) morphology
 - (B) life history
 - (C) habitat
 - (D) phylogenetic
10. Integrated farming system aims at
 - (A) increased productivity, profitability
 - (B) sustainability, balanced food
 - (C) recycling of resources
 - (D) All of the above
11. Anemometer is used to measure the
 - (A) rainfall
 - (B) wind speed
 - (C) air pressure
 - (D) humidity
12. Hulling % of rice is
 - (A) 60-65%
 - (B) 30-50%
 - (C) 80-85%
 - (D) 45-55%
13. Most critical stage of rice is
 - (A) tillering
 - (B) jointing
 - (C) rooting
 - (D) booting
14. Gas emitted from rice field is
 - (A) CO
 - (B) CH₃
 - (C) CH₄
 - (D) CO₂
15. The term 'retting' is related to
 - (A) millets
 - (B) jute
 - (C) mustard
 - (D) sesamum
16. The fruit of banana is botanically a
 - (A) pepo
 - (B) berry
 - (C) pome
 - (D) drupe
17. Which mango variety is suitable for high density planting?
 - (A) Sindhu
 - (B) Mallika
 - (C) Amrapalli
 - (D) Langra
18. Which of the following is a ripening hormone?
 - (A) GA₃
 - (B) Auxin
 - (C) Cytokinin
 - (D) Ethylene

19. Development of embryo without fertilization is known as
- (A) parthenocarpy
 - (B) parthenogenesis
 - (C) apomixis
 - (D) None of the above
20. 'Hen and chicken' is a disorder observed in
- (A) grape
 - (B) mango
 - (C) litchi
 - (D) banana
21. What is the commercial propagation method of pineapple?
- (A) Suckers, slips
 - (B) Patch budding
 - (C) Stooling
 - (D) Cutting
22. Vegetables are generally subjected to drying
- (A) after blanching
 - (B) without blanching
 - (C) after sulphuring
 - (D) with any other means
23. Which one is **not** correctly matched?
- (A) Ginger-Rhizome
 - (B) Garlic-Bulb
 - (C) Potato-Tuber
 - (D) Sweet potato-Stolon
24. Application of a grease band around mango tree trunk is to control the insect pest
- (A) mango fruit fly
 - (B) mango stem borer
 - (C) mango mealy bug
 - (D) None of the above
25. The system of planting of fruit trees in hill slope is
- (A) square system
 - (B) rectangular system
 - (C) contour system
 - (D) hexagonal system
26. Which vegetable is a flower that we eat?
- (A) Broccoli
 - (B) Squash
 - (C) Potato
 - (D) Lettuce

27. The main purpose of blanching vegetables before freezing is to
- (A) increase color
 - (B) soften cellulose
 - (C) deactivate enzymes
 - (D) prevent the loss of vitamin C
28. Phytochrome is involved in
- (A) phototropism
 - (B) photorespiration
 - (C) photoperiodism
 - (D) geotropism
29. Gibberellins promote
- (A) seed germination
 - (B) seed dormancy
 - (C) leaf fall
 - (D) root elongation
30. Which of the following hormones can replace vernalisation?
- (A) Auxin
 - (B) Cytokinin
 - (C) Gibberellin
 - (D) Ethylene
31. End product of glycolysis is
- (A) acetyl CoA
 - (B) pyruvic acid
 - (C) glucose 1-phosphate
 - (D) fructose 1-phosphate
32. Ethylene gas is used for
- (A) growth of plants
 - (B) delaying fruit's abscission
 - (C) ripening of fruits
 - (D) stopping the leaf abscission
33. Polyploidy is induced through
- (A) irradiation
 - (B) mutagenic chemicals
 - (C) ethylene
 - (D) colchicine
34. Heterosis is the
- (A) appearance of spontaneous mutations
 - (B) induction of mutations
 - (C) mixture of two or more traits
 - (D) superiority of hybrids over their parents

35. Pure line breed refers to
- (A) heterozygosity only
 - (B) homozygosity only
 - (C) homozygosity and self assortment
 - (D) heterozygosity and linkage
36. Emasculation refers to
- (A) removal of female parts
 - (B) removal of male parts from a bisexual flower
 - (C) removal of male and female parts
 - (D) None of the above
37. A plant cell wall is mainly composed of
- (A) protein
 - (B) cellulose
 - (C) lipid
 - (D) starch
38. A sudden spontaneous change in structure and action of a gene is called
- (A) variation
 - (B) allelomorph
 - (C) linkage
 - (D) mutation
39. What is the diameter of clay particles?
- (A) 0.001-0.004 mm
 - (B) less than 0.002 mm
 - (C) 0.05-0.1 mm
 - (D) 0.02-2.00 mm
40. Microorganism involved in conversion from nitrite to nitrate is
- (A) nitrosomonas
 - (B) nitrobacter
 - (C) pseudomonas
 - (D) bacillus
41. What is soil erosion?
- (A) Process by which soil is formed
 - (B) Removal of soil by wind and water
 - (C) Referred as greenhouse effect
 - (D) Natural method of filtering harmful pollutants
42. Plants absorb nitrogen from the soil in the form of
- (A) nitrogen oxide
 - (B) nitric acid
 - (C) nitrates
 - (D) free nitrogen gas

43. Mycorrhizae is associated with

- (A) formation of root nodules
- (B) hyphae penetrating the soil
- (C) found mostly in lower plants
- (D) soil erosion

44. The pH in soils can be raised by adding

- (A) sand
- (B) lime
- (C) sulphur
- (D) nitrogen

45. Green manure plants used by farmers mainly belong to

- (A) Compositae
- (B) Leguminosae
- (C) Solanaceae
- (D) Poaceae

46. Main function of biofertilizer is to increase

- (A) chemical process
- (B) physiological process
- (C) biological process
- (D) photosynthesis process

47. Soil profile refers to an arrangement within a soil of

- (A) horizontal layout
- (B) vertical layout
- (C) size of soil particles
- (D) None of the above

48. Denitrification is a process of

- (A) oxidation
- (B) reduction
- (C) hydration
- (D) carbonation

49. Mulching is done to

- (A) conserve the soil moisture
- (B) suppress the weed growth
- (C) minimize the soil compaction and erosion
- (D) All of the above

50. In Arunachal Pradesh, apple is commercially cultivated in

- (A) Tawang
- (B) Itanagar
- (C) Shergaon
- (D) Pasighat

51. Bunchy top of banana virus is transmitted by
 (A) *Aphis gossypii*
 (B) *Bemisia tabaci*
 (C) *Nephotettix virescens*
 (D) *Pentalonia nigronervosa*
52. Concentric ring or target-board symptoms found in disease is caused by
 (A) *Phytophthora*
 (B) *Cercospora*
 (C) *Alternaria*
 (D) *Pyricularia*
53. The 'cosmetic effect' is found in the case of which of the following fungicides?
 (A) Hinosan
 (B) Carboxin
 (C) Tridemorph
 (D) Ethirimol
54. The first identified bacterial disease of plant 'fire blight of apple' was discovered by
 (A) Adolf Mayer
 (B) E. F. Smith
 (C) M. K. Patel
 (D) T. J. Burrill
55. 'Rice tungro virus' is transmitted by
 (A) *Myzus persicae*
 (B) *Nephotettix virescens*
 (C) *Bemisia tabaci*
 (D) *Toxoptera citricida*
56. *Sesamum phyllody* disease is caused by
 (A) phytoplasma
 (B) virus
 (C) spiroplasma
 (D) rickettsia like organism
57. In rice 'white head' symptom produced due to the infestation of
 (A) *Sitotroga cerealella*
 (B) *Trogoderma granarium*
 (C) *Corcyra cephalonica*
 (D) None of the above
58. 'Tundu' is a disease of the crop
 (A) potato
 (B) citrus
 (C) wheat
 (D) groundnut
59. 'Khaira' disease of rice can be controlled by spraying of
 (A) copper sulphate
 (B) manganese sulphate
 (C) borax
 (D) zinc sulphate
60. Pathogen associated with Irish famine is
 (A) *Drechslera oryzae*
 (B) *Pyricularia grisea*
 (C) *Phytophthora infestans*
 (D) *Helminthosporium turcicum*

61. Pathogen responsible for causing 'foot rot' disease in rice is
- Rhizoctonia solani*
 - Fusarium moniliformae*
 - Drechslera oryzae*
 - Sclerotium oryzae*
62. Harvest index is
- economic yield \times biological yield
 - economic yield – biological yield
 - biological yield / economic yield \times 100
 - economic yield / biological yield \times 100
63. Which of the following diseases induce floral abnormalities?
- Downey mildew of maize
 - White rust of crucifers
 - Powdery mildew of mustard
 - All of the above
64. Scientific name of insect vector involved in transmission of phytoplasma causing phyllody disease in plant is
- Myzus persicae*
 - Orosius albicinctus*
 - Bemisia tabaci*
 - Toxoptera citricida*
65. 'Pheromone trap' attracts
- male moth
 - female moth
 - caterpillars
 - female bugs
66. Which of the following is the cause of 'black heart' disease of potato?
- Zinc deficiency
 - Boron deficiency
 - Potassium deficiency
 - Oxygen deficiency
67. The commercial biopesticide 'Thuricide' is produced from
- Bacillus subtilis*
 - Trichoderma viride*
 - Bacillus thuringiensis*
 - Bacillus megaterium*
68. 'Moko' disease of banana is caused by
- Fusarium oxysporum fsp cubense*
 - Erwinia carotovora*
 - Ralstonia solanacearum*
 - Cercospora musae*

69. 'Panama' disease of banana is caused by
- (A) *Fusarium*
 - (B) *Ralstonia*
 - (C) *Rhizoctonia*
 - (D) *Colletotrichum*
70. In papaya, shoe string like symptom is observed due to infection of
- (A) papaya leaf curl virus
 - (B) papaya ringspot virus
 - (C) Both (A) and (B)
 - (D) None of the above
71. 'Yellow vein mosaic virus' disease of okra is transmitted by
- (A) *Aphis gossypii*
 - (B) *Myzus persicae*
 - (C) *Bemisia tabaci*
 - (D) *Thrips tabaci*
72. 'Profit maximization' is the objective of which farming system?
- (A) Peasant farming
 - (B) State farming
 - (C) Capitalistic farming
 - (D) Cooperative farming
73. 'Organic Agricultural Produce Grading and Marking Rules' was given in the year
- (A) 2001
 - (B) 2003
 - (C) 2009
 - (D) 1992
74. Phytoplasmas are sensitive to
- (A) penicillin
 - (B) tetracycline
 - (C) calixin
 - (D) streptomycin
75. What do you mean by 'Minimum Support Price'?
- (A) Minimum cost of production
 - (B) Government buys produce at this price
 - (C) Traders cannot pay lesser price
 - (D) Farmer cannot sale at higher price
76. The organization related to export of agricultural processed product is
- (A) FCI
 - (B) APEDA
 - (C) NABARD
 - (D) CACP

77. The law of comparative advantage is based on

- (A) absolute margin
- (B) relative margin
- (C) net margin
- (D) additional margin

78. Training and visit system started in

- (A) 1974
- (B) 1973
- (C) 1976
- (D) 1975

79. The word 'extension' is derived from

- (A) Latin word
- (B) Greek word
- (C) English word
- (D) None of the above

80. Result demonstration is a/an

- (A) mass contact
- (B) group contact
- (C) individual contact
- (D) None of the above

81. Which is a principle of extension education?

- (A) Leadership
- (B) Classroom teaching
- (C) Writing
- (D) Speaking

82. The Minikit Programme for rice was started in

- (A) 1978
- (B) 1971
- (C) 1976
- (D) 1970

83. Generations of agricultural extension can be divided into

- (A) 5 generations
- (B) 3 generations
- (C) 2 generations
- (D) 4 generations

84. Which is known as the sunk cost?

- (A) Retrospective cost
- (B) Fixed cost
- (C) Flow cash
- (D) Fixed cash

85. In economics, cash is

- (A) a working capital
- (B) a fixed capital
- (C) flowing in one direction
- (D) None of the above

86. Production economics is a

- (A) micro approach
- (B) macro approach
- (C) Both (A) and (B)
- (D) None of the above

87. Operational holding refers to

- (A) net cultivated area by the farmer
- (B) total irrigated area
- (C) total area under fencing
- (D) All of the above

88. The average force that a bullock can exert is

- (A) 1/5th of its body weight
- (B) 1/10th of its body weight
- (C) 1/20th of its body weight
- (D) 1/25th of its body weight

89. Bench terracing is also called as

- (A) hill farming
- (B) staircase farming
- (C) erosion control farming
- (D) None of the above

90. Scientific name of citrus nematode is

- (A) *Xiphinema index*
- (B) *Tylenchulus semipenetrans*
- (C) *Hemicycliophora arenaria*
- (D) *Globodera rostochiensis*

91. Which is an outdoor bin?

- (A) Pusa bin
- (B) Pucca kothi
- (C) Paddy straw-mud structure
- (D) All of the above

92. An indigenous plough is a

- (A) multipurpose implement
- (B) primary tillage implement
- (C) secondary tillage implement
- (D) wetland puddler

93. 'Ufra' disease of rice is caused by
- (A) *Heterodera avenae*
 - (B) *Meloidogyne incognita*
 - (C) *Ditylenchus angustus*
 - (D) *Xiphinema index*
94. Stripping of sugarcane leaves minimizes the attack of
- (A) mealybugs
 - (B) pyrilla
 - (C) early shoot borer
 - (D) top shoot borer
95. Scientific name of banana aphid is
- (A) *Thrips florum*
 - (B) *Pentalonia nigroneruosa*
 - (C) *Cosmopolites sordidus*
 - (D) *Bemisia tabaci*
96. The spiralling whitefly infesting the leaves of many crops is
- (A) *Bemesia tabaci*
 - (B) *Aleurolobus* sp.
 - (C) *Aleurodicus dispersus*
 - (D) None of the above
97. Which pest of potato attacks the tuber both in field and storage?
- (A) Potato aphid
 - (B) Ladybird beetle
 - (C) Potato tuber moth
 - (D) Potato black cutworm
98. *Trichogramma japonicum* is used mainly as bio-control agent of which insect in rice?
- (A) Rice caseworm
 - (B) Rice leaf-folder
 - (C) Rice stem borer
 - (D) BPH
99. 'Silver Shoot' symptom in rice is due to the infestation of
- (A) stem borer
 - (B) leaf folder
 - (C) case worm
 - (D) gall midge
100. Hopper burn is a plant damage symptom caused by
- (A) *Sogatella furcifera*
 - (B) *Nilaparvata lugens*
 - (C) *Nephotettix virescens*
 - (D) *Chodana spectra*