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OPSC ASO

Previous Year Paper
Paper-I
10 Jul, 2022



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T. B. C. : AAO (SR) – 1/21

Test Booklet Series

A

TEST BOOKLET

SPECIAL RECRUITMENT
ASSISTANT AGRICULTURE OFFICER
PAPER – I

Sl. No. ... **1017**

Time Allowed : 2 Hours

Maximum Marks : 100

: INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C OR D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **100** items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided, by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. For each wrong response (answer), 0.25 marks shall be deducted from the marks awarded for correct answers.
8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

ZW – 1A/9

(Turn over)

SEAL

1. Which of the following is not a nitrogenous fertilizer ?
 - (A) Ammonium chloride
 - (B) Ammonium sulphate
 - (C) Calcium carbonate
 - (D) None of these
2. Application of manures and fertilizers to the established rice-crop within crop duration is :
 - (A) Drill placement
 - (B) Basal dressing
 - (C) Top dressing
 - (D) None of these
3. Domination of weed causes :
 - (A) Reduction in land value
 - (B) Loss in crop yield
 - (C) Loss in crop quality
 - (D) All of these
4. Which of the following weed is used as a green vegetable ?
 - (A) *Cirsium arvense*
 - (B) *Chenopodium album*
 - (C) Both (A) and (B)
 - (D) None of these
5. Which of the following herbicide have long period residual effect on soil ?
 - (A) Glyphosate
 - (B) 2, 4 D sodium salt
 - (C) Atrazine
 - (D) None of these
6. Which compound enhances herbicide action in plants ?
 - (A) Adjuvant
 - (B) Acetone
 - (C) Boron
 - (D) All of these
7. Which method of irrigation is suitable for pulse crop in M. P. ?
 - (A) Flood irrigation
 - (B) Drip irrigation
 - (C) Sprinkler irrigation
 - (D) None of these
8. Which of the following crop has known as major millet ?
 - (A) Sorghum
 - (B) Finger millet
 - (C) Cotton
 - (D) None of these

9. Which is the most drought tolerant crop ?

- (A) Bajra
- (B) Jowar
- (C) Wheat
- (D) Both Bajra and Jowar

10. Which crop is suitable to protect soil erosion ?

- (A) Cover crop
- (B) Trap crop
- (C) Cereal crop
- (D) None of these

11. What are the activities of plants shown during severe drought ?

- (A) Reduction in photosynthesis
- (B) Reduction in respiration and transpiration
- (C) Decreases in cell size
- (D) All of these happens

12. Yield of crops losses due to weed infestation is :

- (A) 27%

(B) 12%

(C) 38%

(D) 100%

13. Growing crops and raising live stock to meet family need is called :

- (A) Mixed Farming
- (B) Commercial Farming
- (C) Mechanized Farming
- (D) None of these

14. Which of these physical factors are affecting the income of farming system ?

- (A) Rainfall
- (B) Availability of farm machinery
- (C) Manpower
- (D) All of these

15. What is main aim of integrated farming system ?

- (A) Enhancing productivity
- (B) Enhancing farm income
- (C) Employment generation
- (D) All of these

16. If you have a five acre low line farm near a township, which of the following integrated farming system is most suitable for point of higher income :
- Fish + Water Chestnut + Vegetable
 - Rice + Agro forestry
 - Fish + Rice
 - Cattle farming + Agro forestry
17. Definition of synergetic cropping is known as :
- Growing of two crops in a same field as inter crop which enhanced the productivity of both crop
 - Growing of two crops in a same field as inter crop which reduced the productivity of both crop
 - Growing of two crops in a same field as inter crop which reduced the productivity of main crop
 - None of these
18. Bio-control of **Parthenium** is :
- Crociosema lantana**
 - Zygrogramma bicolorata**
 - Bactrasp**
 - Halticacynea**
19. Principle of organic farming consists of :
- Soil health
 - Ecological Balance
 - Nature care
 - All of these
20. Bio-fertilizers are used as :
- Seed treatment
 - Seeding root dip
 - Both (A) and (B)
 - None of these
21. **Cyanobacteria** is :
- BGA
 - Azolla
 - Azotobacter
 - Rhizobium
22. Green manuring crop having stem nodule is :
- Sesbania rostrata**
 - Sesbania aculeata**
 - Both (A) and (B)
 - None of these

23. **Chaturgavya** decomposes faster than **Panchagavya** due to absence of :
- (A) Dung
(B) Curd
(C) Milk
(D) Ghee
24. Herbicide are used to destroy :
- (A) Insect
(B) Disease
(C) Nematode
(D) Weeds
25. Separating grain from chaff is called :
- (A) Threshing
(B) Harvesting
(C) Sowing of seed
(D) Winnowing
26. Most critical stage of irrigation in wheat crop is :
- (A) Tillering
(B) CRI
(C) Flowering
(D) Harvest
27. Country which is pioneer in hybrid rice is :
- (A) China
(B) India
(C) Philippines
(D) Japan
28. Most important and productive wheat contributing zone :
- (A) North Western plain
(B) North Eastern plains
(C) Central zone
(D) Peninsular zone
29. Which of the cultural operation is specially followed in Chickpea ?
- (A) Nipping
(B) De-suckering
(C) Propping
(D) Chipping
30. Which of the following is a fibre and oilseed crop ?
- (A) Linseed (flax)
(B) Sisal
(C) Jute
(D) Sunhemp
31. Seed rate required for Pearl millet is :
- (A) 2 kg/ha
(B) 4 kg/ha
(C) 10 kg/ha
(D) 15 kg/ha

32. Beushening type of rice cultivation is popularly practiced in :
- Madhya Pradesh
 - Chattisgarh
 - Odisha
 - All these states
33. First dwarf variety of the world which is considered as a miracle rice ?
- IR 8
 - Jaya
 - ADT 27
 - TN 1
34. Sowing and harvesting months of Aus rice is :
- May-June and September-October
 - June-July and November-December
 - November-December and March-April
 - None of these
35. Leaves of oilseed crop is used for rearing silkworm is :
- Sunflower
 - Sesame
 - Castor
 - Niger
36. Jackfruit is well acclimatized which type of climate ?
- Temperate
 - Tropical
 - Sub-tropical
 - Arid zone
37. Colt and Paja are rootstock of which crop ?
- Cherry
 - Strawberry
 - Pear
 - Plum
38. EMLA series of rootstock is free from :
- Virus
 - Nematode
 - Drought
 - Aphid
39. Inflorescence of banana is :
- Spadix
 - Panicle
 - Hypanthodium
 - Racemose

40. Enzyme bromelain is present in which fruit :

- (A) Papaya
- (B) Banana
- (C) Avocado
- (D) Pineapple

41. Zygodormancy is present in :

- (A) Bael
- (B) Aonla
- (C) Ber
- (D) Guava

42. Bael is rich source of :

- (A) Vitamin B complex
- (B) Vitamin A
- (C) Vitamin C
- (D) None of these

43. Biofortified variety of cauliflower is :

- (A) Pusa beta kesari
- (B) Pusa snowball
- (C) Pusa deepali
- (D) Pusa raunak

44. Bicolor variety of brinjal is :

- (A) Vaishali
- (B) Arka navneet
- (C) Arka kusumakar
- (D) Pusa bhairav

45. Cabbage has anti cancerous properties due to presence of :

- (A) Isothiocyanate
- (B) Sulphoraphane
- (C) Indol 3-carbinol
- (D) Diallyl di sulphide

46. Lycopene developed in quantity in tomato at what temperature :

- (A) 15-18°C
- (B) 18-21°C
- (C) 21-24°C
- (D) 24-27°C

47. Which nutrient is most important for carrot crop ?

- (A) N
- (B) P
- (C) K
- (D) Ca

48. Which is commonly known as butternut squash ?

- (A) Pointed gourd
- (B) Sponge gourd
- (C) Pumpkin
- (D) Bottle gourd

49. Mode of pollination in potato is :

- (A) Self pollination
- (B) Cross pollination
- (C) Often cross pollination
- (D) None of these

50. Variety of paprika suitable for colour extraction from :

- (A) Sinduri
- (B) Pusa jwala
- (C) Bhaskar
- (D) Arka abir

51. Yerruseri is value added product of which crop ?

- (A) Pumpkin
- (B) Cucumber
- (C) Bottle gourd
- (D) None of these

52. Which is variety of marigold ?

- (A) Pusa bahar
- (B) Pusa tara
- (C) Perfection
- (D) Friendship

53. Blueing of rose petal due to :

- (A) Auxin
- (B) CO_2

(C) Accumulation of ammonia

(D) Ethylene

54. Pyrethrin is extracted from which flower ?

- (A) Carnation
- (B) Rose
- (C) Chrysanthemum
- (D) Gladiolus

55. All palms belong to family :

- (A) Araceae
- (B) Rosaceae
- (C) Iridaceae
- (D) Agavaceae

56. Netting is a common practice recommended for :

- (A) Marigold
- (B) Petunia
- (C) Carnation
- (D) Rose

57. Pricularin produced by **Pyricularia oryzae** causes :

- (A) Brown spot of Rice
- (B) Rice blast
- (C) Sheath blight of Rice
- (D) None of these

58. In which of the following diseases of sorghum a long conical collumella is present in the centre of each zones ?

- (A) Head smut
- (B) Loose smut
- (C) Long smut
- (D) Grain smut

59. Which one disease of wheat causes restriction in export of wheat from India ?

- (A) Kernal bunt
- (B) Hill bunt
- (C) Loose smut
- (D) Flag smut

60. **Fusarium Spp.** causing with of red gram produced :

- (A) Micro conidia and chlamydospores
- (B) Macro and micro conidia
- (C) Micro, macro conidia and chlamydospores
- (D) Only micro conidia

61. Which of the following stages of black rust are found on alternate host ?

- (A) 0 and I
- (B) II and III

(C) IV and 0

(D) All of these

62. Citrus canker is controlled by :

- (A) Bavistin
- (B) Ridomyl MZ
- (C) Monocrotophos
- (D) Streptocyclin

63. The distinctive diagnosis of Panama with of Banana is :

- (A) Lengthwise splitting of pseudostem
- (B) Horizontal splitting of pseudostem
- (C) Initial younger leaf yellowing
- (D) All of these

64. Black up of mango is due to :

- (A) Air pollution with CO₂
- (B) Air pollution with SO₂
- (C) O₂ deficiency
- (D) B deficiency

65. Papaya ring spot disease is spread through :

- (A) Air
- (B) Water
- (C) Vectors
- (D) All of these

66. The main insect/pest of cauliflower is :

- (A) DBM
- (B) Aphids
- (C) Jassids
- (D) White fly

67. Mealy bug is the major pest of :

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

68. The insecticide use to control the termites :

- (A) Chloropyrphos
- (B) Furadon
- (C) Thiomet
- (D) Monocrotophos

69. Litchi mite is control by :

- (A) Kelthane
- (B) Chlorpyrphos
- (C) Cypermethrin
- (D) None of these

70. Fruit and shoot borer is an important pest of :

- (A) Chilli

(B) Potato

(C) Onion

(D) Brinjal

71. Mythimna separata is a pest of :

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

72. Apis mellifera produces :

- (A) Lac
- (B) Silk
- (C) Honey and wax
- (D) None of these

73. Name of brinjal shoot and fruit borer's is :

- (A) Leucino desorbonalis
- (B) Helicoverpa armigera
- (C) Trypory zaniavella
- (D) Nilaparvata lugens

74. Which insect having one pair of wing ?

- (A) Cockroach
- (B) Gundhi bug
- (C) Mosquito
- (D) Lac bug

75. Rice weevil is the name of :
 (A) *Sitophilus oryzae*
 (B) *Rhyzopertha dominica*
 (C) *Oryzaephilus surinamensis*
 (D) *Trichogramma japonicum*
76. Ladybird beetle, *illeiscincta* feeds voraciously on :
 (A) Phytophagous mites
 (B) Powdery mildew
 (C) Nymphs of jassid
 (D) Mealybug and scale
77. Which insects are used as singing pets ?
 (A) Crickets, Mole crickets and Grasshoppers
 (B) Cicadas, Mole crickets and Grasshoppers
 (C) Cicadas, Crickets and Grasshoppers
 (D) Mole crickets, Grasshoppers and Cicadas
78. Incurvid moth pollinate :
 (A) Jack fruit
 (B) Ficus
 (C) Yucca
 (D) Fig
79. The scientific name of plant hopper of mango is :
 (A) *Ideoscopus clypealis*
 (B) *Nilaparvata lugens*
 (C) *Casputa reflexa*
 (D) None of these
80. The majority of phytophagous nematodes are ?
 (A) Root parasites
 (B) Tissue parasites
 (C) Stem parasites
 (D) All of these
81. Nematode attack is severe in ?
 (A) Potato
 (B) Tomato
 (C) Egg plant
 (D) Pepper
82. In plant parasitic nematode contains a spear or stylet with which the nematode pierces the cell walls of its host and ingests the food :
 (A) Nerve ring
 (B) Basal gland
 (C) Stoma
 (D) Median bulb

83. The nematode lacks :

- (A) Organ for circulation
- (B) Organ for respiration
- (C) Both (A) and (B)
- (D) All are present

84. The nematodes, as a rule, are bisexual existing as separate :

- (A) Male
- (B) Female
- (C) Both (A) and (B)
- (D) None of these

85. Founder of Nematology was :

- (A) Dr. Johannes Govertus de man, 1850
- (B) Dr. Hargobind Khurana, 1938
- (C) Both (A) and (B)
- (D) None of these

86. The silkworm spin cocoon after :

- (A) 4th mould
- (B) 3rd mould
- (C) Either (A) and (B)
- (D) 2nd mould

87. Pebrine is a disease of **B. mori** :

- (A) Viral
- (B) Fungal
- (C) Bacterial
- (D) Protozoan

88. The Central Silk Board was established in :

- (A) 1946
- (B) 1947
- (C) 1948
- (D) 1959

89. Majority of rainfall in India is contributed by :

- (A) North-East Monsoon
- (B) South-West Monsoon
- (C) Pre-monsoon rain
- (D) None of these

90. The El-Nino phenomenon occurs in :

- (A) Atlantic Ocean
- (B) Pacific Ocean
- (C) Indian Ocean
- (D) Artic Ocean

91. Which of these green house gas is most abundant in the atmosphere ?
 (A) Carbon dioxide
 (B) Methane
 (C) Nitrous oxide
 (D) Water vapour
92. Which of the following is/are the anticipated effect(s) of global warming ?
 (A) Rising sea level
 (B) Has increased
 (C) Has remain same
 (D) None of these
93. Which of the following contribute least to your Carbon foot print ?
 (A) Riding a bike
 (B) Driving a car
 (C) Using a train
 (D) Riding bicycle
94. Why are forests important for mitigating climate change ?
 (A) Forest serve as a sink in the Carbon cycle
 (B) Tree provide building material
 (C) Tree are important food source
 (D) Leaves of the trees reflect all sunlight away from the Earth
95. The number of hydro-meteorological hazards in recent decades (drought, flood, windstorms etc) :
 (A) Has increased
 (B) Has decreased
 (C) Has remain same
 (D) None of these
96. The oldest form of Agroforestry is :
 (A) Alley cropping
 (B) Taungya system
 (C) Home garden
 (D) Shifting cultivation
97. Headquarter of World Agro-Forestry System is located at :
 (A) Dehradun
 (B) Rome
 (C) Nairobi
 (D) Rio de Janeiro
98. Tree planting in Silvi-agriculture system should be oriented in :
 (A) East-West
 (B) East-South
 (C) North-South
 (D) West-South

99. In agro forestry systems, the tree compete with neighbouring crops mainly for :

- (A) Light
- (B) Nutrient
- (C) Moisture
- (D) All of these

100. Choice of forest tree species to be used under agro forestry programme largely depends on :

- (A) Soil
- (B) Site
- (C) Agro climatic condition
- (D) Nature of crops

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SEAL

