PREVIOUS YEAR PAPER

UP TGT 2021 — Agriculture (Series A)

UP TGT · 7 or 8 August 2021

125 questions · +4 for a correct answer, −0 for a wrong one · 120 minutes

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Questions from the U.P. Secondary Education Services Selection Board's paper of 7 or 8 August 2021. Each question is followed by its answer, and the answer key is repeated on the last page.

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Agriculture

1. Linseed is commonly known as
   (a) Flax
   (b) Queen of cereals
   (c) Millets
   (d) None of these
   Answer: (a)

2. Whiptail is a disorder of cauliflower due to deficiency of
   (a) Boron
   (b) Molybdenum
   (c) Zinc
   (d) Potash
   Answer: (b)

3. Main cause of black tip in mango is
   (a) CO2 gas
   (b) SO2 gas
   (c) CO2 + SO2 + acetylene gas
   (d) None of these
   Answer: (c)

4. "Garibi Hatao" slogan was coined by
   (a) Jawaharlal Nehru
   (b) Mahatma Gandhi
   (c) Indira Gandhi
   (d) Sanjay Gandhi
   Answer: (c)

5. Which vegetable oil is good for heart patient ?
   (a) Groundnut oil
   (b) Mustard oil
   (c) Soyabean oil
   (d) Sunflower oil
   Answer: (d)

6. Paraquat Weedicide is
   (a) Selective
   (b) Non-selective
   (c) Semi-selective
   (d) None of these
   Answer: (b)

7. In the following, which one is not a milch type of Indian cattle ?
   (a) Gir
   (b) Sahiwal
   (c) Red Sindhi
   (d) Amrit Mahal
   Answer: (d)

8. 'Alpine' is a breed of
   (a) Goat
   (b) Poultry
   (c) Sheep
   (d) Camel
   Answer: (a)

9. Which one of the following pairs of crop and insect-pest is not correctly matched ?
   (a) Sugarcane – Gurdaspur borer
   (b) Groundnut – White grub
   (c) Rape seed – Aphid
   (d) Sunflower – Painted bug
   Answer: (d)

10. The cloud which is responsible for continuous precipitation is called as
   (a) Nimbostratus
   (b) Cirrus
   (c) Cumulus
   (d) Altocumulus
   Answer: (a)

11. Soybean seeds contain
    (a) 20% oil and 20% protein
    (b) 40% oil and 40% protein
    (c) 40% oil and 20% protein
    (d) 20% oil and 40% protein
    Answer: (d)

12. Cow breed 'Rathi' is commonly found in the State of
    (a) Haryana
    (b) Bihar
    (c) Rajasthan
    (d) Punjab
    Answer: (c)

13. Nearby canal banks area, soil becomes
    (a) Saline
    (b) Acidic
    (c) Neutral
    (d) None of these
    Answer: (a)

14. Method of mass communication is
    (a) Demonstration
    (b) Farm visit
    (c) Group discussion
    (d) Newspaper
    Answer: (d)

15. Lower layer of atmosphere is
    (a) Troposphere
    (b) Stratosphere
    (c) Mesosphere
    (d) Thermosphere
    Answer: (a)

16. Which of the following is Milk Sugar ?
    (a) Fructose
    (b) Lactose
    (c) Maltose
    (d) Sucrose
    Answer: (b)

17. The government of India set up Planning Commission in
    (a) 1945
    (b) 1950
    (c) 1951
    (d) 1953
    Answer: (b)

18. Progeny of the breeder seed is
    (a) Nucleus seed
    (b) T. L. seed
    (c) Foundation seed
    (d) Certified seed
    Answer: (c)

19. The red colour of tomato is due to presence of
    (a) Xanthomonas
    (b) Anthocynin
    (c) Lycopin
    (d) Carotene
    Answer: (c)

20. Very vigorous rootstock of apple is
    (a) M7
    (b) M27
    (c) M25
    (d) M9
    Answer: (c)

21. Hypogeal germination is found in
    (a) Most of monocots
    (b) Most of dicots
    (c) Most of monocots and some dicots
    (d) Most of dicots and some monocots
    Answer: (c)

22. The husk less variety of barley is
    (a) Manjula
    (b) K. K. 141
    (c) Dolma
    (d) None of these
    Answer: (c)

23. Potassium chloride contains
    (a) 70 – 72% K2O
    (b) 80 – 85% K2O
    (c) 58 – 60% K2O
    (d) 50 – 52% K2O
    Answer: (c)

24. Adult female of goat is known as
    (a) Gilt
    (b) Doe
    (c) Ewe
    (d) Sow
    Answer: (b)

25. N. D. R. I. is located at
    (a) Agra
    (b) Karnal
    (c) Barielly
    (d) Chandigarh
    Answer: (b)

26. Use of light trapes for the control of pests comes under which method ?
    (a) Biological control
    (b) Cultural control
    (c) Mechanical control
    (d) Chemical control
    Answer: (c)

27. Which fruit is most suitable for preparation of 'Marmalade' ?
    (a) Litchi
    (b) Guava
    (c) Mango
    (d) Orange
    Answer: (d)

28. Urea is a diamide of
    (a) Carbonic acid
    (b) Acetic acid
    (c) Carboxylic acid
    (d) Nitric acid
    Answer: (a)

29. 'Avrodhi' variety of chick pea is recommended for the State
    (a) Uttar Pradesh
    (b) Bihar
    (c) Madhya Pradesh
    (d) All of above
    Answer: (d)

30. The practice of cultivation in the water is termed as
    (a) Aeroponic
    (b) Geoponic
    (c) Hydroponic
    (d) Monoponic
    Answer: (c)

31. 'Toda' is a breed of
    (a) Cow
    (b) Sheep
    (c) Buffalo
    (d) Goat
    Answer: (c)

32. Early blight disease of potato is
    (a) Soil borne
    (b) Air borne
    (c) Seed borne
    (d) All of the above
    Answer: (d)

33. Pusa snowball is a variety of which crop ?
    (a) Potato
    (b) Cauliflower
    (c) Carrot
    (d) Radish
    Answer: (b)

34. Which of the following is the permanent method of preservation of fruits and vegetables ?
    (a) Pasteurization
    (b) Canning
    (c) Blanching
    (d) Exclusion of moisture
    Answer: (d)

35. Among the following which one is not monocotyledoneae fruit ?
    (a) Coconut
    (b) Custard apple
    (c) Date palm
    (d) Pineapple

    Answer: (b)

36. Rural development programmes are related to
    (a) Self employment
    (b) Employment generation
    (c) Poverty alleviation
    (d) All of these

    Answer: (d)

37. _____ is used for the reclamation of alkali soil.
    (a) CaO
    (b) $CaCO_3$
    (c) $Ca(OH)_2$
    (d) $CaSO_4.2H_2O$

    Answer: (d)

38. The germination in which, cotyledons of seeds re ns in the soil is
    (a) Epigeal
    (b) Hypogeal
    (c) Hypo-epigeal
    (d) None of these

    Answer: (b)

39. The chromosome numbers (2n numbers) of river buffalo are
    (a) 48
    (b) 50
    (c) 52
    (d) 54

    Answer: (b)

40. "Jamuna pari' is native of
    (a) Haryana
    (b) Punjab
    (c) Uttar Pradesh
    (d) None of these

    Answer: (c)

41. Incomplete metamorphosis is found in order
    (a) Lepidoptera
    (b) Homoptera
    (c) Hymenoptera
    (d) Coleoptera
    Answer: (b)

42. In which region, drip irrigation is suitable ?
    (a) Humid region
    (b) Dry region
    (c) High rainfall areas
    (d) None of these
    Answer: (b)

43. Which of the following is the correct formula of rock phosphate ?
    (a) Ca3(PO4)2 . CaF2
    (b) 3[Ca3(PO4) . CaF2]
    (c) Ca3PO4 . CaF2
    (d) 3[Ca3(PO4)2] . CaF2
    Answer: (d)

44. 'Bartlett' is a prominent cultivar of
    (a) Apple
    (b) Pear
    (c) Quince
    (d) Plum
    Answer: (b)

45. The tillage operation that is done in a field with standing water is called as
    (a) Planking
    (b) Puddling
    (c) Ploughing
    (d) Earthing
    Answer: (b)

46. Critical stage of first irrigation in wheat comes after _____ days of sowing.
    (a) 10 – 15
    (b) 16 – 20
    (c) 21 – 25
    (d) 26 – 30
    Answer: (c)

47. For the effective control of wilt, pigeon pea should be inter-cropped with

(a) Mung
(b) Urd
(c) Maize
(d) Sorghum

Answer: (d)

48. Total number of essential nutrient elements required for plant growth is

(a) 16
(b) 17
(c) 21
(d) 18

Answer: (b)

49. Which of the following is responsible for discolouration of canned fruit products ?

(a) Low temperature
(b) Copper salt
(c) Sugar
(d) Enzymatic browning

Answer: (d)

50. How many of ATP molecules are formed by complete oxidation of one molecule of pyruvic acid by Kreb's cycle ?

(a) 15
(b) 10
(c) 30
(d) 12

Answer: (a)

51. NIRD under Ministry of rural development is located at

(a) Kanpur
(b) Lucknow
(c) Hyderabad
(d) Gorakhpur

Answer: (c)

52. Red soils are mainly found in

(a) Uttar Pradesh
(b) Tamil Nadu
(c) Rajasthan
(d) Bihar

Answer: (b)

53. Training under TRYSEM is mainly given to
    (a) Young students
    (b) Rural youths
    (c) Young women
    (d) None of these

    Answer: (b)

54. Colostrum is rich source of
    (a) Glucose
    (b) Protein
    (c) Mineral
    (d) All of these

    Answer: (b)

55. Which one of the following is enzyme ?
    (a) Fat
    (b) Protein
    (c) Mineral
    (d) Vitamin

    Answer: (b)

56. Time and temperature combination in Batch or ho' .g method of pasteurization is
    (a) 145°F for 30 Minutes
    (b) 161°F for 15 Seconds
    (c) 145°F for 15 Minutes
    (d) 161°F for 30 Minutes

    Answer: (a)

57. 'Seed Act' was passed in which year ?
    (a) 1955
    (b) 1960
    (c) 1966
    (d) 1970

    Answer: (c)

58. 'Panchayati Raj' was first started on October 2, 1959 from
    (a) Kanpur
    (b) Nagaur
    (c) Panipat
    (d) Shimla

    Answer: (b)

59. Seed rate of carrot per hectare is
    (a) 2 – 3 kg
    (b) 8 – 10 kg
    (c) 5 – 6 kg
    (d) 15 – 20 kg
    Answer: (c)

60. The lines joining the places having equal atmospheric pressure are
    (a) Isobar
    (b) Isotherm
    (c) Isohyets
    (d) Isohaline
    Answer: (a)

61. Milk fever in cow is caused due to the deficiency of
    (a) Nitrogen
    (b) Calcium
    (c) Phosphorus
    (d) Sodium
    Answer: (b)

62. Seed-plot technique is adopted in
    (a) Tomato
    (b) Brinjal
    (c) Potato
    (d) Chilli
    Answer: (c)

63. For the plants most important form of water is
    (a) Capillary water
    (b) Hygroscopic water
    (c) Gravitational water
    (d) None of these
    Answer: (a)

64. The universal soil loss equation to predict erosion was given by
    (a) Ram Babu and Dhruva Narayana
    (b) Wischmeier and Smith
    (c) C. I. Ramsher
    (d) H. H. Bennett
    Answer: (b)

65. Headquarter of Indian meteorological department is at
(a) New Delhi
(b) Bangalore
(c) Pune
(d) Lucknow
Answer: (a)

66. Which one of the following is a serious insect of Onion and Garlic ?
(a) Mealybug
(b) Thrips
(c) Bulb Borer
(d) None of these
Answer: (b)

67. Gestation period of cow is
(a) 283 – 285 days
(b) 290 – 292 days
(c) 270 – 272 days
(d) 275 – 277 days
Answer: (a)

68. Which one of the following is not a plant extracter esticide ?
(a) Nicotine
(b) Pyrethrins
(c) Aldrin
(d) Rotenone
Answer: (c)

69. Under National Agriculture Research Project of ICAR, India is divided into _____ agroclimatic zones.
(a) 15
(b) 126
(c) 129
(d) None of these
Answer: (d)

70. Sulphur removal by the following groups of crops is in the decreasing order
(a) Cereals, Pulses and Oil-seeds
(b) Pulses, Cereals and Oil-seeds
(c) Oil-seeds, Cereals and Pulses
(d) Oil-seeds, Pulses and Cereals
Answer: (d)

71. Mango cultivar which retains its characteristic flavour even during processing is
    (a) Dashehari
    (b) Mallika
    (c) Alphonso
    (d) All of these
    Answer: (c)

72. Ca, Mg and S are called as
    (a) Macro nutrients
    (b) Secondary nutrients
    (c) Micro nutrients
    (d) Primary nutrients
    Answer: (b)

73. Food and Agriculture Organization was established in
    (a) 1945
    (b) 1950
    (c) 1955
    (d) 1984
    Answer: (a)

74. Isolation distance for foundation seed production of brinjal is
    (a) 200 m
    (b) 300 m
    (c) 100 m
    (d) 400 m
    Answer: (a)

75. Rainfall simulator is used for
    (a) Soil loss studies
    (b) Runoff computation
    (c) Rainfall studies
    (d) Both (A) and (C)
    Answer: (d)

76. The moisture content of paneer should not be less than
    (a) 70%
    (b) 65%
    (c) 60%
    (d) 55%
    Answer: (a)

77. Standard for solid not fat (S.N.F.) constituents in buffalo milk is
(a) 8.6%
(b) 9.2%
(c) 9.5%
(d) 13.5%
Answer: (b)

78. Refractometer is used for the determination of
(a) Minerals
(b) Vitamins
(c) T.S.S. (Total Soluble Solids)
(d) None of these
Answer: (c)

79. The place where Gandhiji started his Sewagram Project
(a) Ahmadabad
(b) Surat
(c) Wardha
(d) Navsari
Answer: (c)

80. "Baradari" is an important feature of
(a) Japanese garden
(b) Mughal garden
(c) English garden
(d) All of these
Answer: (b)

81. First dwarf rice variety developed in India was
(a) IR – 8
(b) Vijaya
(c) IR – 21
(d) Jaya
Answer: (a)

82. 'Karan Swiss' breed of cow is a crossed between
(a) Tharparkar × Friesian
(b) Sahiwal × Gir
(c) Sahiwal × Brown Swiss
(d) Devani × Hariyana
Answer: (c)

83. The bio-fungicide, Trichoderma is used in pigeonpea against which disease ?
(a) Blight
(b) Fusarium wilt
(c) Leaf spot
(d) YVM
Answer: (b)

84. 'Doka' and 'Dang' are the fruit developmental stages of
(a) Phalsa
(b) Sapota
(c) Date palm
(d) Coconut
Answer: (c)

85. Flame photometer is used for the determination of
(a) Nitrogen
(b) Phosphorus
(c) Boron
(d) Potassium
Answer: (d)

86. Element essential for the deflocculation of soil pa e is
(a) Potassium
(b) Iron
(c) Calcium
(d) Sodium
Answer: (d)

87. The Concept of 'Training and Visit System' was evolved in
(a) 1973
(b) 1974
(c) 1966
(d) 1976
Answer: (a)

88. Which one is a regular bearing variety of mango ?
(a) Chausa
(b) Langra
(c) Amrapali
(d) Alphonso
Answer: (c)

89. Sarvodaya scheme was started by
(a) M. K. Gandhi
(b) Ram Manohar Lohiya
(c) Janeshwar Prasad Mishra
(d) Acharya Vinoba Bhave
Answer: (d)

90. Father of 'Indian rust' is
(a) E. J. Butler
(b) K. C. Mehta
(c) M. K. Patel
(d) R. S. Singh
Answer: (b)

91. Which one is not biopesticide ?
(a) Bioneem
(b) Biolep
(c) Dipel
(d) Carbaryl
Answer: (d)

92. Freezing point of milk is
(a) – 2°C
(b) – 0.59°C
(c) – 0.55°C
(d) – 0.60°C
Answer: (c)

93. Embryo dormancy is found in fruit
(a) Litchi
(b) Ber
(c) Bael
(d) Aonla
Answer: (d)

94. Moniliform type of antennae is found in
(a) Termite
(b) Ground beetle
(c) Pulse beetle
(d) Moths
Answer: (a)

95. Which of the following are viral disease of cattle ?
(a) F. M. D.
(b) Swine fever
(c) Rinderpest
(d) All of these
Answer: (d)

96. The fruit of castor is known as
(a) Grain
(b) Pod
(c) Capsule
(d) Cob
Answer: (c)

97. Most commonly used plant for topiary making is
(a) Clerodendron inerme
(b) Ingadulsis spp.
(c) Azadiricta indica
(d) Ficus spp.
Answer: (a)

98. Black or Brown Heart disease in sugar beet is caused due to deficiency of
(a) Zinc
(b) Manganese
(c) Boron
(d) Copper
Answer: (c)

99. The arrangement of primary and secondary soil particles is called as
(a) Soil porosity
(b) Soil texture
(c) Soil structure
(d) All of these
Answer: (c)

100. Application of sticky band around the tree stem is most effective for control of
(a) Mango leaf hopper
(b) Mango mealy bug
(c) Bark eating caterpillar
(d) Mango stem borer
Answer: (b)

101. "Umran" is a variety of

(a) Ber
(b) Mango
(c) Guava
(d) None of these

Answer: (a)

102. The grassy shoot disease of sugarcane is caused by

(a) Nematode
(b) Fungus
(c) Mycoplasma like organisms
(d) Virus

Answer: (c)

103. An organism that is usually saprophytic but under certain conditions may be parasite, is known as

(a) Facultative saprophyte
(b) Facultative parasite
(c) Obligate parasite
(d) None of these

Answer: (b)

104. Initiation of milk secretion is called

(a) Lactogenesis
(b) Galactogenesis
(c) Galactopiosis
(d) None of these

Answer: (a)

105. _____ is the tallest breed of sheep in India, resembling goat in appearance.

(a) Sirohi
(b) Surti
(c) Nellore
(d) Magra

Answer: (c)

106. Pusa Manjari and Pusa Naveen are the prominent cultivars of

(a) Ridge gourd
(b) Round gourd
(c) Bottle gourd
(d) Pumpkin

Answer: (c)

107. The availability of soil water to plants lies between
(a) 0 to 0.33 atmosphere of tension
(b) 0.33 to 15 atmosphere of tension
(c) 15 to 31 atmosphere of tension
(d) 31 to 1000 atmosphere of tension

Answer: (b)

108. Fertilizer that supplies nitrogen in both ammonical and nitrate form is
(a) Calcium Ammonium Nitrate
(b) Urea
(c) Ammonium sulphate
(d) Ammonium chloride

Answer: (a)

109. Suitable variety of onion for Kharif crop is
(a) Pusa red
(b) Pusa Ratnar
(c) Agri found dark red
(d) Agri found light red

Answer: (c)

110. Aristate antennae are found in
(a) Ship fly
(b) House fly
(c) Grasshopper
(d) Pulse beetle

Answer: (b)

111. Pusa chetki is a variety of
(a) Carrot
(b) Potato
(c) Radish
(d) Pea

Answer: (c)

112. 'Wintering' a special operation is done in
(a) Rose
(b) Chrysanthemum
(c) Gladiolus
(d) Hibiscus

Answer: (a)

113. The first Krishi Vigyan Kendra (KVK) was established in the year
(a) 1964
(b) 1974
(c) 1984
(d) 1994
Answer: (b)

114. Critical soil test level approach was given by
(a) Cate and Nelson
(b) Arnon and Stout
(c) Larsen
(d) Bray
Answer: (a)

115. Lab to land programme in 1979 was launched by
(a) ICAR
(b) Govt. of India
(c) Govt. of Uttar Pradesh
(d) None of these
Answer: (a)

116. "Cricket ball" is a popular variety of
(a) Guava
(b) Litchi
(c) Sapota
(d) Citrus
Answer: (c)

117. Which crop is commonly affected by 'Green ear disease' ?
(a) Sorghum
(b) Pearl millet
(c) Rice
(d) Wheat
Answer: (b)

118. Which one of the following is water soluble ?
(a) Monocalcium phosphate
(b) Dicalcium phosphate
(c) Hydroxy apatite
(d) All
Answer: (a)

119. Nitrogen fixation is carried out by enzyme
(a) Nitrate reductase
(b) Nitrite reductase
(c) Nitrogenase
(d) None of these
Answer: (c)

120. Which one of the following is not correctly matched ?
(a) Anthrax – Bacterial disease
(b) Rinderpest – Viral disease
(c) Liver fluke – Endoparasite
(d) Milk fever – Lack of Vitamin A
Answer: (d)

121. The effective habitate factors that influence the life and development of plant
(a) Climatic factors
(b) Edaphic factors
(c) Physiographic and biotic factors
(d) All above
Answer: (d)

122. Sponging type of mouth parts are found in
(a) House fly
(b) Honey-bee
(c) Mosquito
(d) All of the above
Answer: (a)

123. Krishna and Kanchan are varieties of
(a) Mango
(b) Aonla
(c) Guava
(d) Ber
Answer: (b)

124. Which of the following is called as 'Father of Tillage' ?
(a) Arthur Young
(b) J. B. Lowes
(c) Jethro Tull
(d) Liebig
Answer: (c)

125. Oil content in oil bearing plants is increased by use of

(a) Sulphur

(b) Molybdenum

(c) Nitrogen

(d) Zinc

Answer: (a)

Answer key

Answer key from the U.P. Secondary Education Services Selection Board's official answer key for this sitting. "—" means the key gave none.

Agriculture

1	**(a)**	2	**(b)**	3	**(c)**	4	**(c)**	5	**(d)**	6	**(b)**
7	**(d)**	8	**(a)**	9	**(d)**	10	**(a)**	11	**(d)**	12	**(c)**
13	**(a)**	14	**(d)**	15	**(a)**	16	**(b)**	17	**(b)**	18	**(c)**
19	**(c)**	20	**(c)**	21	**(c)**	22	**(c)**	23	**(c)**	24	**(b)**
25	**(b)**	26	**(c)**	27	**(d)**	28	**(a)**	29	**(d)**	30	**(c)**
31	**(c)**	32	**(d)**	33	**(b)**	34	**(d)**	35	**(b)**	36	**(d)**
37	**(d)**	38	**(b)**	39	**(b)**	40	**(c)**	41	**(b)**	42	**(b)**
43	**(d)**	44	**(b)**	45	**(b)**	46	**(c)**	47	**(d)**	48	**(b)**
49	**(d)**	50	**(a)**	51	**(c)**	52	**(b)**	53	**(b)**	54	**(b)**
55	**(b)**	56	**(a)**	57	**(c)**	58	**(b)**	59	**(c)**	60	**(a)**
61	**(b)**	62	**(c)**	63	**(a)**	64	**(b)**	65	**(a)**	66	**(b)**
67	**(a)**	68	**(c)**	69	**(d)**	70	**(d)**	71	**(c)**	72	**(b)**
73	**(a)**	74	**(a)**	75	**(d)**	76	**(a)**	77	**(b)**	78	**(c)**
79	**(c)**	80	**(b)**	81	**(a)**	82	**(c)**	83	**(b)**	84	**(c)**
85	**(d)**	86	**(d)**	87	**(a)**	88	**(c)**	89	**(d)**	90	**(b)**
91	**(d)**	92	**(c)**	93	**(d)**	94	**(a)**	95	**(d)**	96	**(c)**
97	**(a)**	98	**(c)**	99	**(c)**	100	**(b)**	101	**(a)**	102	**(c)**
103	**(b)**	104	**(a)**	105	**(c)**	106	**(c)**	107	**(b)**	108	**(a)**
109	**(c)**	110	**(b)**	111	**(c)**	112	**(a)**	113	**(b)**	114	**(a)**
115	**(a)**	116	**(c)**	117	**(b)**	118	**(a)**	119	**(c)**	120	**(d)**
121	**(d)**	122	**(a)**	123	**(b)**	124	**(c)**	12	**(a)**		