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DSSSB SO
Horticulture Officer
Previous Year Paper
2019- Tier 1

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SECTION - A

i) General Awareness

1. The Indian Air Force Day is observed on (A) October 8 (B) September 8 (C) November 8 (D) August 8
2. Who was the first Indian to receive the Magsaysay Award? (A) Indira Gandhi (B) T. N. Seshan (C) T. M. Krishna (D) Vinoba Bhave
3. Which State Government has decided to set up museum at the house of Ishwar Chandra Vidyasagar? (A) Maharashtra (B) Delhi (C) Uttar Pradesh (D) West Bengal
4. Who was the winner of IPL-2019? (A) Chennai Super Kings (CSK) (B) Royal Challengers Bengaluru (RCB) (C) Mumbai Indians (MI) (D) None of the above
5. Which of the following is India's highest honour in the field of literature? (A) Vyas Samman (B) Jnanpith Award (C) Saraswati Samman (D) Kalaimamani
6. History of which among the following parts of India has been described in the "Rajatarangini" of Kalhana? (A) Kashmir (B) Malwa (C) Magadha (D) Gandhar
7. The Jallianwala Bagh is located in which of the following Indian city? (A) Jalandhar (B) Amritsar (C) Chandigarh (D) Ludhiana
8. Psephology is the study of (A) Stamps (B) Coins (C) Elections (D) Literature
9. Which ancient Indian physician is known as the 'Father of Plastic Surgery'? (A) Charaka (B) Sushruta (C) Nagarjuna (D) Vagbhatta
10. To which of the following country Olympic Airways belong? (A) France (B) Spain (C) Portugal (D) Greece
11. Summer Olympics - 2020 will be hosted in which of the following City? (A) Beijing, China (B) Tokyo, Japan (C) New Delhi, India (D) None of the above
12. Which among the following is not a Landlocked Country? (A) Mongolia (B) Nepal (C) Paraguay (D) Papua New Guinea
13. "Keibul Lamjao National Park", the only floating Park in the world, located in which of the following North-East Indian State? (A) Assam (B) Nagaland (C) Tripura (D) Manipur
14. The web of the spider is made up of which among the following? (A) Carbohydrate Polymers (B) Lipids (C) Protein (D) Polysaccharides

15. Who among the following published "Sambad Kaumudi"? (A) Raja Ram Mohan Roy (B) Ishwar Chandra Vidyasagar (C) Gopala Krishna Gokhale (D) Dayanand Saraswati
16. Who composed the Indian National Anthem? (A) Swami Vivekananda (B) Rabindranath Tagore (C) Bankim Chander Chatterjee (D) Satyajit Ray
17. Who among the following has written "Kitab al-Hind"? (A) Ibn Battuta (B) Alberuni (C) Aldhahabi (D) Ibn Kathir
18. What is Tyndall effect? (A) Reflection of a beam of light by the particles of a suspension (B) Scattering of a beam of light by the particles of a colloid (C) Refraction of a beam of light by the particles of a solution (D) Scattering of a beam of light by the particles of a suspension
19. How many spokes are there in the Indian National Flag? (A) 22 (B) 25 (C) 21 (D) 24
20. Which among the following is the first multipurpose river valley project of independent India? (A) Indira Gandhi Canal Project (B) Bhakra Nangal Project (C) Damodar Valley Project (D) Sutlej Valley Project

ii) General Intelligence and Reasoning Ability

21. Barometer: Pressure :: Seismograph:? (A) Blood Pressure (B) Earthquakes (C) Rain (D) Heart Beat
22. 9:8::16:? (A) 15 (B) 17 (C) 27 (D) 25
23. Select the words which is least like other words in the group. (A) Circle (B) Ellipse (C) Parabola (D) Parallelogram
24. Select the number which is least like other numbers in the group. (A) 263 (B) 111 (C) 383 (D) 551
25. Complete the series 7, 26, 63, 124, 215, 342, ? (A) 481 (B) 511 (C) 391 (D) 421
26. In a certain code 'FAVOUR' is written as 'ECURTV'. How is 'FOSTER' written in that code? (A) GPTUFS (B) ENRSDS (C) OFTSRE (D) EQRWDV
27. Find the missing terms: _c_bd_cb_da_ac_b (A) adacbd (B) aadcdb (C) dabcbda (D) ddbbca



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28. In a certain code '467' means 'leaves are green', '485' means 'green is good' and '639' means 'they are playing'. Which digit stands for 'leaves' in that code? (A) 4 (B) 6 (C) 7 (D) 3

Questions 29-33: A, B, C, D, E and F are six members of a family. One couple has parents and their children in the family. A is the son of C and E is the daughter of A. D is the daughter of F, who is the mother of E.

29. Who are the male members in the family? (A) A and C (B) C and F (C) A, B and D (D) Cannot be determined

30. What is the relationship between A and F? (A) Husband and wife (B) Father and daughter (C) Brother and sister (D) None of these

31. Which of the following pairs is the parents of the couple? (A) BC (B) AB (C) AF (D) CF

32. How many female members are in the family? (A) 2 (B) 3 (C) 4 (D) Cannot be determined

33. What relationship do D and E bear to each other? (A) Sister and Brother (B) Mother and Son (C) Sisters (D) Cannot be determined

34. Children, Principal and School can be represented by (A) (Images A-D provided in diagram format)

35. In the following diagram \triangle represents females, \square represents service persons and \circ represents doctors. Find the area in the diagram which represents unemployed female doctors. (A) 1 (B) 3 (C) 7 (D) 8

36. If the first and third letter in the word NECESSARY are interchanged, also the fourth and the sixth letters and the seventh and ninth letters which of the following would be the seventh letter from the left? (A) A (B) Y (C) R (D) E

37. In the following group of numbers, how many such odd numbers are there which are divisible by 3 or 5, then followed by odd numbers and then followed by an even number? **12, 19, 21, 3, 25, 18, 35, 20, 22, 21, 45, 46, 47, 48, 9, 50, 52, 54, 55, 56.** (A) Nil (B) 1 (C) 2 (D) 3

38. If \div means +, - means \div , \times means - and + means \times , then

$$\frac{(36 \times 4) - (8 \times 4)}{4 + 8 \times 2 + 16 \div 1} = ?$$

(A) 0 (B) 8 (C) 12 (D) 16



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39. Five boys are sitting in a row. A is on the right of B, E is on the left of B, but to the right of C. If A is on the left of D, who is sitting in the middle? (A) E (B) B (C) A (D) C

40. (Number Pattern Question) (A) 5 (B) 6 (C) 8 (D) 9

ii) Arithmetical and Numerical Ability

41. In the following question, "?" stands for which digit?

$$\$ \$? + 1 ? + 2 ? + [cite_start]? 3 + ? 1 = 21 ? \$ \$$$

(A) 4 (B) 6 (C) 8 (D) 9

42. The ratio of two numbers is 3: 4 and their H.C.F. is 4. Their L.C.M. is (A) 12 (B) 16 (C) 24 (D) 48

43. What is the difference between the biggest and the smallest fraction among $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{5}{6}$? (A) $\frac{1}{6}$ (B) $\frac{1}{12}$ (C) $\frac{1}{20}$ (D) $\frac{1}{30}$

44. $\int_0^{\frac{\pi}{2}} \sin^3 x \, dx =$ (A) $\frac{4}{3}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) None of these

45. If $x = 1 + \sqrt{2}$ and $y = 1 - \sqrt{2}$, find the value of $x^2 + y^2$ (A) 6 (B) 36 (C) 12 (D) 20

46. The equation of the curve passing through the point (1, 1) whose differential equation is $x dy = (2x^2 + 1) dx$, $x \neq 0$ is (A) $\frac{x^3}{3}$ (B) $x^2 + \frac{1}{2} \log|x|$ (C) $\log -x^2$ (D) $x^2 + \log|x|$

47. Find the number which when multiplied by 15 is increased by 196. (A) 14 (B) 20 (C) 26 (D) 28

48. Sachin is younger than Rahul by 4 years. If their ages are in the respective ratio of 7: 9, how old is Sachin? (A) 16 years (B) 18 years (C) Cannot be determined (D) None of these

49. If $(\frac{a}{b})^{x-1} = (\frac{b}{a})^{x-3}$, then the value of x is (A) $\frac{1}{2}$ (B) 1 (C) 2 (D) $\frac{7}{2}$

50. What is 15% of Rs. 34? (A) Rs. 3.40 (B) Rs. 3.75 (C) Rs. 4.50 (D) Rs. 5.10

51. If $0.75 : x :: 5 : 8$, then x is equal to (A) 1.12 (B) 1.20 (C) 1.25 (D) 1.30

52. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost?
(A) 48 paise (B) 54 paise (C) 56 paise (D) 72 paise
53. A does a work in 10 days and B does the same work in 15 days. In how many days they together will complete the same work? (A) 5 days (B) 6 days (C) 8 days (D) 9 days
54. The integrating factor of the differential equation $(1-y^2)\frac{dx}{dy}+yx=ay$ (where $|y|<1$) is (A) $\frac{1}{\sqrt{y^2-1}}$ (B) $\frac{1}{\sqrt{1-y^2}}$ (C) $\frac{1}{1-y^2}$ (D) None of these
55. What is the probability of getting a sum 9 from two throws of a dice? (A) $\frac{1}{6}$ (B) $\frac{1}{8}$ (C) $\frac{1}{9}$ (D) $\frac{1}{12}$
56. Find the odd man out: 41, 43, 47, 53, 61, 71, 73, 81 (A) 61 (B) 71 (C) 73 (D) 81
57. In a certain system of coding, the word STATEMENT is written as TNEMETATS. In the same system of coding, what should be the code for the word POLITICAL? (A) LACITILOP (B) LCATILIO (C) OPILITACL (D) None of these
58. The number of arbitrary constants in the particular solution of a differential equation of 4^{th} order is (A) 5 (B) 0 (C) 4 (D) None of these
59. If \div means $-$, $+$ means \div , $-$ means \times and \times means $+$, then $15-2\div 90+90\times 100 = ?$ (A) 190 (B) 180 (C) 90 (D) None of these
60. Find the missing term. (Sequence provided in diagram) (A) 10 (B) 15 (C) 20 (D) 25

iv) Hindi Language and Comprehension

61. इनमें से कौन-सी रचना धनपाल की है? (A) चंदनवाला रास (B) रेवंतगिरि रास (C) भविसयत कहा (D) संदेश रासक
62. इनमें से कौन-सा नाम रीतिकाल का है? (A) अलंकृत काल (B) श्रृंगार काल (C) उत्तर मध्यकाल (D) ये सभी
63. जिसका कोई शत्रु न जन्मा हो, वह है (A) अतिथि (B) अजातशत्रु (C) अद्वितीय (D) पारदर्शी
64. इनमें से कौन-सी प्राचीनतम भाषा है? (A) संस्कृत (B) प्राकृत (C) वैदिक संस्कृत (D) अपभ्रंश

65. 'हिंदी साहित्य की भूमिका' के लेखक कौन हैं? (A) डॉ नगेन्द्र (B) हजारी प्रसाद द्विवेदी (C) राहुल सांकृत्यायन (D) विश्वनाथ प्रसाद मिश्र
66. 'मिथ्या' का विलोम शब्द है (A) असत्य (B) गलत (C) सत्य (D) कोई नहीं
67. 'मानव' शब्द के लिए उपयुक्त भाववाचक संज्ञा का चयन कीजिए। (A) मनस्वी (B) मानवता (C) मनुष्यत्व (D) आदमीयत
68. निम्नलिखित में कौन-सा शब्द तत्सम नहीं है? (A) आँख (B) नयन (C) नेय (D) दृग
69. इनमें से रीतिसिद्ध कवि कौन हैं? (A) बिहारी (B) घनानंद (C) देव (D) पद्माकर
70. इनमें से फोर्ट विलियम कॉलेज कलकत्ता में कौन काम नहीं करता था? (A) जान गिलक्राइस्ट (B) सदल मिश्र (C) लल्लूलाल (D) इंशा अल्ला खां
71. विदेशी भाषा से आए शब्दों को क्या कहते हैं? (A) देशी (B) देशज (C) आगत (D) यौगिक
72. इनमें से कौन-सा संज्ञा का भेद नहीं है? (A) जातिवाचक (B) गुणवाचक (C) व्यक्तिवाचक (D) द्रव्यवाचक
73. 'शिवा बावनी' के रचनाकार थे (A) बिहारी (B) केशव (C) भूषण (D) देव
74. बिहारी ने कितने ग्रंथों की रचना की? (A) 7 (B) 3 (C) 1 (D) 4
75. भूषण के काव्य में किस रस की प्रधानता है? (A) शृंगार (B) वीर (C) करुण (D) अद्भुत
76. घनानंद की प्रेमिका का क्या नाम था? (A) शेख रंगरेजिन (B) सुजान (C) रजऊ (D) राधाबाई
77. प्रयोगवाद का प्रारंभ किस रचना से माना जाता है? (A) तार सप्तक (B) नया सप्तक (C) दूसरा सप्तक (D) तीसरा सप्तक
78. विजय देव नारायण साही किस सप्तक के कवि हैं? (A) तार सप्तक (B) दूसरा सप्तक (C) तीसरा सप्तक (D) कोई नहीं
79. 'पदः + छेद' विग्रह पद का सन्धि शब्द होगा (A) पदछेद (B) पदच्छेद (C) पदछेद (D) पदच्छेद
80. 'आधुनिक काल' का जनक किसे कहा गया है? (A) महावीर प्रसाद द्विवेदी (B) भारतेन्दु हरिश्चन्द्र (C) बालकृष्ण भट्ट (D) प्रताप नारायण मिश्र

v) English Language and Comprehension

81. School was recently over for the summer, and the _____ of liberty sat uneasily on most of the children. (A) exploring (B) appearing (C) feeling (D) reading



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82. A ray of sunlight fell into that little white, glistening, frozen desert and _____ it with a cold and dazzling flame. (A) darkened (B) purchased (C) recorded (D) illuminated
83. Identify the option where 'Run' is incorrectly used as a phrasal verb: (A) I must run along the lesson again before taking the test. (B) We ran out of groceries before the curfew ended. (C) Suma ran into an old friend at the theatre. (D) The bus ran over a stray dog that was trying to cross the road.
84. Identify the option where 'Keep' is incorrectly used as a phrasal verb: (A) You must keep up your reputation as an honest man even in today's unethical world. (B) I never keep any secrets away from my parents. (C) You must keep on stirring the sugar till it gets caramalised. (D) "Noisy children will be kept out of the class", warned the teacher.
85. Identify the part that has a grammatical error: The environment and forests Minister (A) / relied on scientific expertise/to reject the application of Vedanta Resources/ (B) / for forest clearance and/ by doing so, (C) / he has upheld due process. (D)
- 86. Identify the part that has a grammatical error:** I am uncertain/if we should go/to the (A) / (B) / (C) / late/night party. (D)
- 87. Identify the part that has a grammatical error:** Life expectancy in Europe is continuing (A) / to increase/despite an obesity epidemic, with people in Britain reaching an older (B) / age/than that living in the United States/ (C) / according to a study of trends over the last forty years. (D)
- 88. Identify the part that has a grammatical error:** Adult stem cells, even known as (A) / somatic stem cells/are undifferentiated (B) / cells found throughout the body/ (C) / or regenerate damaged cells. (D)
- 89. Identify the part that has a grammatical error:** Individual bone implants/who's structure (A) / (B) / resembles/that of the natural bone/ (C) / can now be produced quite easily. (D)
- 90. Identify the part that has a grammatical error:** The development of wind-power (A) / promises much/in terms of providing (B) / us with renewable energy/for the future and wind turbines could be/ (C) / the most effective way to harness this power. (D)
91. All the children went to bed at 9 p.m., _____? (A) don't they (B) didn't they (C) doesn't they (D) aren't they



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92. Let us learn a new trade, _____? (A) shall we (B) can we (C) can't we (D) don't we
93. Choose the synonym of 'Contempt': (A) joy (B) smile (C) dislike (D) love
94. Choose the synonym of 'lingered': (A) stayed (B) delighted (C) irritated (D) troubled
95. Fill in the blank with the antonym of 'consider': We will consider your offer, please do not _____ ours. (A) take (B) look at (C) notice (D) ignore
96. Fill in the blank with the antonym of 'pleased': Though most of the students were pleased with the results, a few were _____. (A) insulted (B) misplaced (C) delighted (D) displeased
97. One-word substitute for: A mistaken belief based on unsound arguments. (A) realness (B) fallacy (C) sneer (D) glutton
98. One-word substitute for: An uncivilized, unsophisticated person. (A) tamed (B) pompous (C) savage (D) humane
99. He _____ from London last week. (return) (A) has returned (B) had returned (C) returned (D) returns
100. He said that he _____ from fever for three days. (suffer) (A) has suffered (B) had suffered (C) had been suffering (D) suffered

SECTION-B

Post Specific Subject - Related Questions

101. Embryo sac is also known as (A) Microgametophytes (B) Megagametophytes (C) Microsporangium (D) Megasporangium
102. In cycas, diploxylic vascular bundles are found in (A) Stem (B) Root (C) Leaflet (D) None of the above
103. Diatoms belong to the Phylum (A) Phaeophyceae (B) Bacillariophyta (C) Chlorophyceae (D) Xanthophyceae
104. In a flowering plant, the pollen tube first arrives in (A) Egg (B) An antipodal cell (C) A synergid (D) Central cell
105. The cell wall material of bacteria is (A) Chitin (B) Peptidoglycan (C) Inulin (D) Suberin



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106. In pteridophytes, male sex organs are (A) Absent (B) Antheridia (C) Archegonia (D) Vestigial
107. Study of fossils is called (A) Ornithology (B) Ichthyology (C) Pedalogy (D) Paleontology
108. The last and most important natural system of classification was given by (A) George Bentham and Engler (B) George Bentham and Hooker (C) Engler and Prantl (D) Edwin Bessey and Oswald Tippo
109. Organic farming includes (A) Use of fertilizer and pesticides of biological origin (B) Use of chemical fertilizers (C) Use of growth promoters (D) All of the above
110. The free-living fungus Trichoderma can be used for (A) Killing insects (B) Biological control of plant disease (C) Controlling butterfly caterpillars (D) Producing antibiotics
111. Which of the following pair of organisms is involved in two step conversion of NH_3 into nitrate? (A) Azotobacter and Nitrosomonas (B) Pseudomonas and Nitrobacter (C) Azotobacter and Achromobacter (D) Nitrosomonas and Nitrobacter
112. Botanical name of clove is (A) Elettaria cardamomum (B) Syzygium aromaticum (C) Piper nigrum (D) Cicer arietinum
113. Gaseous plant hormone is (A) Auxin (B) ABA (C) Cytokinin (D) Ethylene
114. Most common method of reproduction in bacteria is (A) Binary fission (B) Endospore formation (C) Conjugation (D) Budding
115. Glucagon is secreted by (A) Liver (B) α -cells (C) β -cells (D) Kidney
116. Radiations can be detected through (A) ELISA reader (B) Spectrophotometer (C) Geiger Mueller counter (D) Maldi-tof
117. Free radical content in a sample can be detected using Spectroscopic technique (A) ESR (B) NMR (C) Fluorescence (D) UV-Visible absorption
118. One Nanometer is equal to (A) $0.1 \mu\text{m}$ (B) $0.01 \mu\text{m}$ (C) $0.001 \mu\text{m}$ (D) $0.0001 \mu\text{m}$



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119. Widely used computer programs in bioinformatics for multiple sequence alignment with command line interface (A) BLAST (B) TargetP (C) CLUSTAL (D) Primer Express
120. The discipline that applies recombinant DNA, DNA sequencing methods and bioinformatics to sequence, assemble and analyse the function and structure of genomes is called (A) Gene therapy (B) Genomics (C) Proteomix (D) Gene amplification
121. Riboswitches are (A) RNA sequence that regulate gene expression by directly binding small molecules to control their structures (B) RNA sequence that regulates gene expression by directly binding small molecules to control their secondary structure (C) RNA sequence that regulate translation (D) RNA sequence that regulate transcription
122. The enzyme used for clearing fruit juices is (A) Pectinase (B) Amylase (C) Enterokinase (D) Sucrose
123. Which of the following is molecular scissors? (A) EcoRI (B) HindIII (C) BamHI (D) All the above
124. Common frog Rana belongs to the order (A) Urodela (B) Apoda (C) Anura (D) Ascaroidea
125. A kingdom of unicellular eukaryotes is (A) Monera (B) Plantae (C) Animalia (D) Protista
126. Which enzyme is responsible for the synthesis of tRNA? (A) RNA replicase (B) RNA polymerase (C) Aminoacyl tRNA synthetase (D) Ribosomal enzymes
127. Body cavity of Hydra is (A) Enterocoel (B) Haemocoel (C) Coelenteron (D) None of the above
128. Synapsis occurs during (A) Anaphase - I (B) Prophase-I (C) Cytokinesis (D) Prophase - II
129. Natural ageing of lakes due to nutritional enrichment is called (A) Biomagnification (B) Petrification (C) Water pollution (D) Eutrophication
130. Acoelomate animal with protandrous nature is (A) Taenia (B) Ascaris (C) Schistosoma (D) Megasclex



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131. *Musca domestica* undergoes metamorphosis in which of the following order? (A) Egg-pupal - larva - adult (B) Egg-larva - nymph - adult (C) Egg-larva - pupal - adult (D) Egg-nymph - adult

132. Which protein is necessary for blood clotting? (A) Fibrinogen (B) Globulin (C) Albumin (D) Collagen

133. The stage between two meiotic divisions is called (A) Interphase (B) Cytokinesis (C) Karyokinesis (D) Interkinesis

134. Phagocytic cells of liver are (A) Argentaffin cells (B) Goblet cells (C) Kupffer cells (D) Oxyntic cells

135. Which of the following organelles is called suicidal bag of cell? (A) Mitochondria (B) Lysosome (C) Golgi body (D) Endoplasmic reticulum

136. Two types of endoplasmic reticulum are (A) cisternae and tubules (B) vesicles and tubules (C) smooth endoplasmic reticulum and rough endoplasmic reticulum (D) vesicles and vacuoles

137. Reserved food in *Euglena* is in form of (A) Starch (B) Glycogen (C) Fatty acids (D) Paramylon

138. Alternation of generation is seen in *Obelia* is termed as (A) metamerism (B) dimorphism (C) metagenesis (D) polymorphism

139. The controlling centre of a cell is (A) Nucleolus (B) Mitochondria (C) Nucleus (D) Ribosome

140. Structural and functional units of lungs is (A) Alveoli (B) Neurons (C) Nephrons (D) Villi

141. The longest region of small intestine is (A) Jejunum (B) Duodenum (C) Ileum (D) None of the above

142. The lock and key model of enzyme action was proposed by (A) Daniel Koshland (B) Seymour Benzer (C) Emil Fischer (D) Hugo De Vries

143. Diabetes insipidus is caused by the deficiency of hormone (A) Vasopressin (B) Insulin (C) Oxytocin (D) Thyroxin

144. Black rust of wheat is caused by (A) *Albugo candida* (B) *Ustilago tritici* (C) *Puccinia graminis* (D) *Ustilago scitami*

145. Which part of the plant shows thigmotropism? (A) Root apex (B) Tendrils (C) Thorns (D) Leaf



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146. Extranuclear DNA is found in (A) ER (B) Golgi apparatus (C) Chloroplast (D) Ribosomes

147. Aerenchyma is very extensive in almost all the vegetative organ of (A) Epiphytes (B) Mesophytes (C) Xerophytes (D) Hydrophytes

148. When plants produce seeds without fertilization, phenomenon is (A) Parthenogenesis (B) Amphimixis (C) Apomixis (D) Somatogamy

149. Foolish seedling disease of rice led to the discovery of (A) ABA (B) Cytokinin (C) 2, 4D (D) Gibberellin

150. The first stable compound in C_3 plants is (A) OAA (B) PGA (C) RUBP (D) PEP

151. Which of the following disease in banana is caused by virus? (A) Panama wilt (B) Bunchy top (C) Sigatoka leaf spot (D) All of these

152. For inducing the germination, stratification is practised in seeds of (A) Citrus (B) Apple (C) Cashew (D) Mango

153. Tristeza is a virus disease of (A) Sugarcane (B) Grapes (C) Citrus (D) Peach

154. Cashewnut is commercially propagated through (A) Cutting (B) Soft wood grafting (C) Patch budding (D) Layering

155. Lightest form of pruning in tea crop carried out is known as (A) Topping (B) Collar pruning (C) Tipping (D) Skiffing

156. Coffee belongs to which of the following family? (A) Theaceae (B) Rubiaceae (C) Anacardiaceae (D) Rutaceae

157. Sago is the important food product derived from (A) Sweet potato (B) Cassava (C) Yam (D) Elephant foot yam

158. Celery belongs to family (A) Chenopodiaceae (B) Amaranthaceae (C) Compositae (D) Umbelliferae

159. Aroma in garlic is due to the presence of (A) Allyl propyl disulphide (B) Diallyl disulphide (C) Allyl isothiocyanate (D) Dimethyl pyrazine

160. The plant part used in saffron spice crop is (A) Leaves (B) Flower bud (C) Aril (D) None of these



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161. Curry leaf is (A) Self-pollinated crop (B) Cross pollinated crop (C) Often cross pollinated crop (D) None of these
162. Family of Sarpagandha (*Rauvolfia serpentina*) and its use / property are (A) Apocynaceae, Laxative (B) Apocynaceae, Sedative (C) Apocynaceae, Anti-spasmodic (D) Solanaceae, Sedative
163. *Cymbopogon winterianus* is a botanical name of (A) Lemon grass (B) Palmrosa grass (C) Patchouli (D) Java citronella
164. Disbudding is commonly practiced for obtaining better bloom in (A) Rose (B) Chrysanthemum (C) Gerbera (D) Jasmine
165. Tissue culture is common commercial propagation method in (A) Rose (B) Palms (C) Orchids (D) Gladiolus
166. Curing favoured by high temperature and high humidity is followed for (A) Tomato (B) Okra (C) Onion (D) Mango
167. Which of the following is used as a maturity index for Watermelon? (A) Tapping (B) Netting (C) Solidity (D) Shape
168. The value of the variable which occurs most frequently drawn from a set of population is (A) Mean (B) Median (C) Mode (D) Range
169. Simplest measure of dispersion is (A) Range (B) Mean deviation (C) Standard deviation (D) Mode
170. Plants growing in soils having sand and gravel are called by the name (A) Psychrophytes (B) Hydrophytes (C) Lithophytes (D) Psammophytes
171. Study of communities is known as (A) Ecology (B) Autecology (C) Synecology (D) Pedology
172. Which of the following indicates Universal Soil Loss Equation? (A) $A=RKLSCP$ (B) $V=K(h_1-h_2)/L$ (C) $Q=CIA$ (D) $E=f(IKCLV)$
173. An adult female sheep is (A) Mare (B) Doe (C) Ewe (D) None of these
174. Meat from goats is called by the name (A) Pork (B) Beef (C) Chevon (D) None of these
175. Which of the following is used as an DNA hybridization based assays molecular markers? (A) Random Amplified Polymer DNA (RAPD) (B) Amplified Fragment Length Polymorphism (AFLP) (C) Restriction Fragment Length Polymorphism (RFLP) (D) None of these



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176. Which of the following is not related to oligogenic traits? (A) Effect of each gene is detectable (B) Variation is discontinuous (C) Traits governed by additive genes (D) Not influenced by environmental factors
177. Air borne pathogen spread diseases through (A) Oospore (B) Mycelia (C) Sclerotia (D) Conidia
178. Which of the following is a bacterial disease? (A) Citrus canker (B) Blast (C) Sheath blight (D) Yellow dwarf of rice
179. Which of the following is a component of Integrated Pest Management (IPM)? (A) Cultural practices (B) Mechanical practices (C) Pesticides methods (D) All of these
180. The main host tree of eri silkworm is (A) Mulberry (B) (Option missing in text) (C) Castor (D) Ber
181. The real force causing entry of water into a cell from other cell is (A) Diffusion Pressure Deficit (B) Turgor Pressure (C) Osmotic Pressure (D) Wall Pressure
182. By which of the following processes water enter into seed coat first when a dry seed is placed in a suitable medium for germination? (A) Imbibition (B) Absorption (C) Osmosis (D) Diffusion
183. Which of the following is not correct with respect to transpiration? (A) Occurs in a day (B) Occurs through stomata (C) It is a controlled phenomenon (D) Water is given out in the form of liquid
184. Transpiration occurs through (A) Stomata (B) Cuticle (C) Lenticel (D) All of the above
185. Which of the following is used to show locally the worth or value of a recommended practice? (A) Method demonstration (B) Result demonstration (C) Charts (D) Posters
186. Which of the following is a group contact method? (A) Telephone calls (B) Farm and home visit (C) Discussion meetings (D) Campaigns
187. Use of radio and television as extension teaching method is (A) Individual contact (B) Group contact (C) Mass community contact (D) None of these
188. Which of the following is an objective / visual extension teaching method? (A) Film strip (B) Leaflets (C) Radio (D) Bulletins



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189. Commodity markets deals with (A) Bonds (B) Shares (C) Wheat (D) None of these

190. Building, machinery and implements are examples of (A) Variable resources (B) Fixed resources (C) Flow resources (D) None of these

191. Mycorrhiza is a symbiotic association between (A) Bacteria and roots of higher plants (B) Algae and roots of orchid (C) Fungi and roots of higher plants (D) Protozoa and roots of higher plants

192. One acre is equivalent to (A) 0.603 ha (B) 0.040 ha (C) 0.40 ha (D) 1.8 ha

193. Which of the following basic principle of field experimentation helps in reducing the experimental error? (A) Replication (B) Randomization (C) Local control (D) All of these

194. Sunflower is a _____ crop. (A) Self pollinated (B) Cross pollinated (C) Self and cross pollinated (D) Parthenocarpous

195. The active principle causing "sorghum poisoning" is (A) Aspirin (B) Caffeine (C) Dhurrin (D) Capsicin

196. The botanical name of dent corn is (A) Zea mays indentata (B) Zea mays indurata (C) Zea mays tunicata (D) Zea mays everta

197. The gynophore of groundnut is commonly referred to as (A) Perianth (B) Peg (C) Ovate (D) Monodelph

198. Which one of the following is a neutral fertiliser? (A) Urea (B) Ammonium Sulphate (C) Single Super Phosphate (D) Calcium Ammonium Nitrate

199. Potassium in Muriate of Potash (MOP) is present in the form of (A) KCl (B) CaHPO_4 (C) K_2SO_4 (D) KPO_4

200. The form of nitrogen that is specific to denitrification is (A) Amide (B) Ammonium (C) Nitrite (D) Nitrate