(1) सदर प्रश्नपत्रके लिए 200 अनिवार्य प्रश्न आहेत. उपदेशांती सांगता करण्यापूर्वी या प्रश्नपत्रके सर्व प्रश्न आहेत किंवा राखून कसल्यावर चाहू. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपत्रका समवेतकांकृती लघु बदलून येतील.

(2) आपल्या परिशिष्ट क्रमांक हा चौकोनांत न विस्तार बोलपेने ठिकाना.

(3) या परिशिष्ट क्रमांक तुमच्या उपर्युक्त विशिष्ट जागीर उपर्युक्त विशिष्ट तुमच्या उपर्युक्त शिक्षित व विस्तार नमुद करावा.

(4) या प्रश्नपत्रके सर्व तपासणी 4 पर्यंत यांदा सर्वप्रतीक अंश स्वाभाविक 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या जार उपर्युक्ती सर्व चौकाया क्रमांक उपर्युक्त विशिष्ट तुमच्या उपर्युक्त नमुद करावा. अशा प्रकारे उपर्युक्त उपर्युक्त क्रमांक नमुद करतो. त्याच्या निर्देशानुसार प्रश्नपत्रका धारण काढून जाणार याची काळजी येईल, हाकात फक्त काढून शाखेचे बोलपेन वापरते, पेपर वा शाखेचे पेंट वापरने नाही.

(5) सर्व प्रश्नांची संख्या गुण आहे. यासाठी सर्व प्रश्नांच्या उपर्युक्त वाचणी, फायदेचे सुका होणार नाहीत याची धारणा घेऊनच शक्य तिलकाच्या वाचणी प्रश्न सोडवते. क्रमांक प्रणांना सोडवण्यास मुद्द्यां आहे परंतु एखादा प्रश्न कठीण वाक्याच्या ताज्या वेळ न धारणामुळे प्रश्नपत्रके बद्दल. अर्थात प्राकारे योग्यपत्र प्रश्नपत्रके प्रोफेस्यनलत्व वेळे स्फुर्त राहिलेल्या कठीण महत्त्व वाचणीला प्रश्नपत्रके प्रमाणे सोडवून लागेल.

(6) उपर्युक्त एकदा नमुद केलेला उत्तर खोट्यांचा उत्तर नाही. नमुद केलेला उत्तर खोटून नव्हाने उत्तर दिल्यास ते तपासले जाणार नाही.

(7) प्रश्नपत्रके सर्व उत्तरांची मूल्यांकन करताना अंदरवार्ता उपर्युक्ती वाक्याच्या उटरांच गुण दिले जातील. त्या प्रणाली पूर्णपणे उपर्युक्त चुकीची उपर्युक्त नमुद केल्यानंतर गुण बजले जाणार नाहीत.

(8) प्रश्नपत्रकमध्ये विहित केलेल्या विशिष्ट जागीरमध्ये काम (रूप अर्थ) करते. प्रश्नपत्रकमध्ये विशिष्ट उपर्युक्त वाक्याच्या उटरांच व ताज्या कार्याचार करते. काम केल्यानंतर ती तोपी राहिलेली उपर्युक्त नमुद केलेले जाअहे. अर्थात्तील जाळून व नव्हाने उपर्युक्त वाक्याच्या नाही. केलेल्या "प्रश्नमध्ये होणारा गैरक्रामणांतर प्रतिबंध करण्यासाठी अधिनियम-82" यासाठी तत्तुलिन व वेळ वेळ वेळ प्रश्नपत्रके उत्तरांच करण्याची वेळ व दोन व्यक्तींच्या निंद्दी कसलांए एक व्यक्तीकडून कार्यावलयाच्या आणि / किंवा रूपांनी एक हजार राजमार्ग दंडावलयांना शिक्षेचे पात्र होतो.

(9) ताकिद

हा प्रश्नपत्रके आयोगाने विहित केलेला एकदा संपूर्ण होणारे प्रश्नपत्रके आयोगाच्या मालमता अनुसार ती परिशिष्ट करताना जम्मेवारी परिशिष्टांची वापर हा वेळ वेळ तयार राहतो. हे वेळ संपूर्णतासाठी प्रश्नपत्रके प्रप्रेमी, किंवा तसेच प्रश्नपत्रके कामांना आलेल्या वाचणी व असाधारण करण्याचा व्यक्ती प्रश्नपत्रक व असाधारण करण्याचा वाचणी प्रश्नपत्रक तबतबूनसारखीये, तसेच प्रश्नपत्रके कामांना हा स्वतः असाधारण करण्याची व्यक्ती प्रश्नपत्रक तबतबूनसारखीये, तसेच प्रश्नपत्र व वाचणी प्रश्नपत्रक तबतबूनसारखीये, तसेच प्रश्नपत्रके कामांना हा स्वतः असाधारण करण्याची व्यक्ती प्रश्नपत्रक तबतबूनसारखीये, तसेच प्रश्नपत्रके कामांना हा स्वतः असाधारण करण्याची व्यक्ती प्रश्नपत्रक तबतबूनसारखीये.
(9) सदर प्रश्नपत्रके सफ़ेद आयोगालो विविध के‌लेली वेळ संस्थानांतर उमेदवारांला ही प्रश्नपत्रकी स्थळ-वरून परीक्षकालांे लेकर जाण्यास पतनाली आहे. मात्र परीक्षकालांे जाण्यापूर्वी उमेदवारांना आपल्या उत्तरपत्रेचा भाग-१ समवेषकाले न विस्तार पत्त करते आवश्यक आहे.

नमुना प्रश्न

Q.No. 201. Butter made from cow milk is of ________.

(1) Creamy colour  (2) White colour  
(3) Yellow colour  (4) Grey colour

इती प्रश्नाचे योग्य उत्तर "(3) Yellow colour" हे आहे. त्यामुळे या प्रश्नाचे उत्तर "(3)" होईल. आता प्र.क्र. 201 समवेषक उत्तर-क्रमांक "(3)" चा कंस खालीलप्रमाणे पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र.क्र. 201. ① ② ● ④

अशा पद्धतीने प्रश्नपत्रके साधारण प्रश्नचा तुमचा उत्तरक्रमाङ्क हा तुम्हाला स्वतंत्रता पुण्यितिला उत्तरपत्रके त्या त्या प्रश्नमकाल्यात धारावर संचय वरून पूर्णपणे छायांकित करून दाखवाला. खालीलता फक्त काब्यांच्या शाळेचे बॉलपेन वापराच्ये. भेटीसिल वा शाळे पेन वापरू नये.

पर्यवेशकांच्या सूचनेविना हे पृष्ठ उलट नये
| 1. Mango *Mangifera indica* is commercially propagated by _________. |
|---|---|
|   | (1) Epicotyl grafting | (2) Enarch grafting |
|   | (3) Air layering | (4) Cutting |
| 2. The Chairman of Planning Commission is: |
|   | (1) President | (2) Prime Minister |
|   | (3) Finance Minister | (4) Speaker of Loksabha |
| 3. The purple colour of fruit skin in Brinjal is due to: |
|   | (1) Lycopene | (2) Anthocyanin |
|   | (3) Xanthophyll | (4) None of the above |
| 4. The law of variable proportions controlled the movement of: |
|   | (1) Long - Run cost curves | (2) Long - Run supply curves |
|   | (3) Short - Run cost curves | (4) None of the above |
| 5. *Grow more food campaign* was started in: |
|   | (1) 1944 | (2) 1952 | (3) 1947 | (4) 1953 |
| 6. In AOA under WTO, which box represents direct payments under production limiting programme? |
|   | (1) Green | (2) Blue | (3) Amber | (4) Yellow |
| 7. An individual engages in activities which lead to a choice to adopt or reject the innovation: |
|   | (1) Implementation function | (2) Decision function |
|   | (3) Evaluation | (4) Satisfaction |
| 8. Which thing is responsible for bitterness in Bittergourd? |
|   | (1) Lycopene | (2) Anthocyanin | (3) Momordicin | (4) Capsicin |
| 9. The science which deals with the study of relation of climate with binomical phenomena in plant is known as: |
|   | (1) Phenology | (2) Climatology | (3) Ecology | (4) Biology |
| 10. The RFLP molecular marker is which type of marker? |
|   | (1) Dominant | (2) Co-dominant | (3) Recessive | (4) None of these |
| 11. Which method of dehydration is used to retain maximum nutrients? |
|   | (1) Sun drying | (2) Cabinet drying | (3) Freeze drying | (4) Oven drying |
12. Which is the base material that is used for manufacture of Rasgolla?
   (1) Rabadi  (2) Khoa  (3) Chhana  (4) Cream

13. Uncertainty in agriculture can be minimized through:
   (1) Specialization in crop production
   (2) Use of hybrid varieties
   (3) Diversified farming
   (4) Co-operative farming

14. ______ of food grains causes breakdown of starch into simpler starches.
   (1) Roasting  (2) Sprouting  (3) Boiling  (4) Frying

15. Energy used for growth, maintenance, work and production of milk, meat, egg and wool is:
   (1) Gross Energy  (2) Digestible Energy
   (3) Metabolizable Energy  (4) Net Energy

16. Euchromatine takes up deep stain during cell division but does not during:
   (1) Metaphase  (2) Anaphase  (3) Prophase  (4) Interphase

17. Best cereal fodder crop for silage preparation is:
   (1) Jowar  (2) Maize  (3) Bajra  (4) Teosinte

18. Breeding of unrelated animals is called as:
   (1) Out breeding  (2) In breeding
   (3) Close breeding  (4) Line breeding

19. Which one of the following is a complete stem parasite of Berseem?
   (1) Striga  (2) Loranthus
   (3) Dodder  (4) Orobanchea spp.

20. Ber is commercially propagated by:
   (1) Seed  (2) Patch budding
   (3) Forkert budding  (4) Inarching

21. Heating temperature and period in high temperature short time pasteurization is:
   (1) 63°C for 30 mins  (2) 72°C for 15 seconds
   (3) 150°C for no hold  (4) 135°C for fraction of second

22. Which plant disease brought the science of plant pathology to lime light?
   (1) Downy mildew of Grape  (2) Coffee rust
   (3) Late blight of potato  (4) Wheat rust
23. The percentage of credit by commercial banks to agriculture before their nationalisation was:
   (1) about 1   (2) 2.7   (3) 3.9   (4) 4.7

24. If in a product-product relationship, increase or decrease in the level of one product does not affect the production level of others then it is a case of:
   (1) Supplementarity   (2) Complementarity
   (3) Competitiveness   (4) Joint product

25. Which is the term used for mating between two individuals related by descent or having a common ancestor?
   (1) Distant breeding   (2) Sibmating
   (3) Cross breeding     (4) Reciprocal breeding

26. Which plant growth regulation increases the female flowers in cucumber?
   (1) Ethrel   (2) GA   (3) IAA   (4) NAA

27. The Calvin Benson cycle of photosynthesis in which the first products after carbon dioxide fixation are three carbon molecules is called ________.
   (1) C1 cycle   (2) C2 cycle   (3) C3 cycle   (4) C4 cycle

28. The WTO began functioning on:
   (1) 1st April, 1994   (2) 1st April, 1995
   (3) 1st January, 1994  (4) 1st January, 1995

29. At the time of seed germination major part of Fat is converted into:
   (1) Proteins   (2) Carbohydrate
   (3) Organic acid   (4) None of these

30. The difference between the price paid by consumer and the price received by producer is referred to as:
   (1) Marketing Cost   (2) Marketing Margin
   (3) Price Spread   (4) Producer's share in consumer's rupee

31. In a laying hen peak egg production is achieved at ________ weeks of age.
   (1) 22 to 25   (2) 60 to 65   (3) 40 to 45   (4) 32 to 35
32. The sum total of genetic information needed to produce the full sized plant is called as

<table>
<thead>
<tr>
<th></th>
<th>Micropropagation</th>
<th>Totipotency</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Pollen culture</td>
<td>Embryo culture</td>
</tr>
</tbody>
</table>

33. Which commercial rootstock is recommended for sweet orange in Maharashtra?

<table>
<thead>
<tr>
<th></th>
<th>Rangpur Lime</th>
<th>Rough Lemon</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Sour Orange</td>
<td>Cleopatra</td>
</tr>
</tbody>
</table>

34. Who among the following considered as a Father of Sociology?

<table>
<thead>
<tr>
<th></th>
<th>Dr. B. Chitamber</th>
<th>August Compte</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Dr. A.R. Desai</td>
<td>Spencer Hatch</td>
</tr>
</tbody>
</table>

35. The basic philosophy of Extension education is:

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<thead>
<tr>
<th></th>
<th>Compulsion</th>
<th>Persuasion</th>
<th>Co-operation</th>
<th>Assimilation</th>
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<tr>
<td>(1)</td>
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36. The first type of Co-operative Societies established in India were:

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<thead>
<tr>
<th></th>
<th>Credit Co-operative Societies</th>
<th>Marketing Societies</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Agricultural Societies</td>
<td>Housing Societies</td>
</tr>
</tbody>
</table>

37. Who is the person to provide a proper measure for consumer's surplus?

<table>
<thead>
<tr>
<th></th>
<th>Adam Smith</th>
<th>A.J. Dupuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>J.R. Hicks</td>
<td>Alfred Marshall</td>
</tr>
</tbody>
</table>

38. Which of the following does not affect milk yield of animal?

<table>
<thead>
<tr>
<th></th>
<th>Breed</th>
<th>Frequency of milking</th>
<th>Pregnancy</th>
<th>None of these</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

39. Process of removing off flavours from milk is:

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<thead>
<tr>
<th></th>
<th>Vacreation</th>
<th>Homogenization</th>
<th>Pasteurization</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Sterilization</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

40. Normally, flash cards for the convenient presentation happen to be the size of

<table>
<thead>
<tr>
<th></th>
<th>7&quot; x 7&quot; or 9&quot; x 9&quot;</th>
<th>10&quot; x 10&quot; or 12&quot; x 12&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>7&quot; x 7&quot; or 8&quot; x 8&quot;</td>
<td>16&quot; x 16&quot; or 18&quot; x 18&quot;</td>
</tr>
</tbody>
</table>

41. Causal organism of paddy blast is:

<table>
<thead>
<tr>
<th></th>
<th>Sarocladium oryzae</th>
<th>Rizoctonia oryzae</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Pyricularia oryzae</td>
<td>None of the above</td>
</tr>
</tbody>
</table>

| (3)|                        |                      |
42. Less than 11 lit of spray solution cover large cropped area with:
   (1) Ultra low volume sprayer  (2) Low volume sprayer
   (3) Medium volume sprayer   (4) High volume sprayer

43. Which of the fatty acid is essential for human nutrition?
   (1) Linoleic acid  (2) Stearic acid  (3) Oleic acid  (4) Palmitic acid

44. Which of the following method is used for valuing the asset like land?
   (1) Cost-Depreciation  (2) Replacement Cost-Depreciation
   (3) Income Capitalization Method  (4) Net Selling Price

45. ________ are fixed ideas in the mind and we tend to hold them true, they are the facts but not always scientifically true.
   (1) Taboos  (2) Rituals  (3) Customs  (4) Beliefs

46. What is the name of the characters whose development depends upon a specific environment?
   (1) Threshold characters  (2) Qualitative characters
   (3) Quantitative characters  (4) Pleiotrophic characters

47. Smut fungi belongs to the order?
   (1) Uredinales  (2) Ustilaginales  (3) Taphrinales  (4) Moniliales

48. The food act which is compulsory to the food process is:
   (1) FPO  (2) ISO  (3) Agmark  (4) PFA

49. ________ is the process of determining, delineating, obtaining and providing useful information for judging decision alternatives.
   (1) Diffusion  (2) Implementation
   (3) Formulation  (4) Evaluation

50. The parallel term for ecosystem is:
   (1) Biogeoconosis  (2) Biosphere  (3) Ecosphere  (4) Ecotype

51. What is the share of buffalo milk in total milk production in India?
   (1) 10%  (2) 40%  (3) 55%  (4) 75%

52. Which is the commercial variety of banana in Maharashtra?
   (1) Harisal  (2) Pooran  (3) Nendran  (4) Grand Naine

P.T.O.
53. The Lac contains Lac resin to the extent of _______.
   (1) 25%  (2) 45%  (3) 65%  (4) 75%

54. The white muscle disease is caused by deficiency of:
   (1) Vitamin - C  (2) Vitamin - E  (3) Vitamin - A  (4) Vitamin - D

55. Group status is an example of _______.
   (1) Physical need  (2) Social need  (3) Integrative need  (4) None of above

56. The type male sterility used in ornamental plants is:
   (1) Genetic  (2) Cytoplasmic genetic  (3) Cytoplasmic  (4) Protoplastic

57. Farmers seeking farm information from peer group is an example of:
   (1) Group contact  (2) Cosmopoite communication  (3) Interpersonal communication  (4) Mass communication

58. Farm planning involves:
   (1) selecting and adopting best package of practices
   (2) preparing farm budget in advance
   (3) both (1) and (2)
   (4) use of economic principles

59. Grand Naine is most important variety of _______ crop.
   (1) Guava  (2) Citrus  (3) Banana  (4) Cashew

60. Mark out the vegetable crop which is not belonging to solanaceous group, from the following crops?
   (1) Brinjal  (2) Tomato  (3) Onion  (4) Chilli

61. What is the scientific name of cowpea?
   (1) Trifolium alexandrium  (2) Medicago sativa
   (3) Vigna sinensis  (4) Avena sativa

62. Teakwood (Tectona grandis) is commercially propagated by _______.
   (1) Stem cutting  (2) Stumps of root and shoot cutting
   (3) Sucker  (4) Rhizome

63. What should be the moisture content of stored grains to prevent insect breeding?
   (1) Less than 8 percent  (2) 9 to 10 percent
   (3) 11 to 15 percent  (4) None
64. Causal organism of wheat leaf rust is:
   (1) *Puccinia graminis*  
   (3) *Puccinia erianthi*  
   (2) *Puccinia recondita*  
   (4) *Puccinia striiformis*

65. Which of the following entomopathogen is extensively used for effective control of many Lepidopterous Insect-Pests.
   (1) *Verticillium lecanii*  
   (3) *Clostridium spp.*  
   (2) *Bacillus thuringiensis*  
   (4) *Bacillus popilliae*

66. Which one of the following pathogens are transmitted by insect vectors?
   (1) Fungi  
   (3) Viruses  
   (2) Nematodes  
   (4) Bacteria

67. Shoestring like leaf is the most typical symptom of the disease ________.
   (1) Papaya bunchy top  
   (3) Papaya ring spot  
   (2) Little leaf of Brinjal  
   (4) Leaf curl of tomato

68. In which year Indian council of Agricultural Research was set up?
   (1) 1929  
   (3) 1936  
   (2) 1939  
   (4) 1950

69. Which fruit crop is grown under rainfed conditions?
   (1) Aonla  
   (3) Gooseberry  
   (2) Sapota  
   (4) Banana

70. Which is the outer part of the earth’s crust?
   (1) Lithosphere  
   (3) Hydrosphere  
   (2) Biosphere  
   (4) Ecosphere

71. Which is the respiratory quotient, when sugars are consumed in respiration as mostly cereals?
   (1) less than unity  
   (3) equal to unity  
   (2) more than unity  
   (4) far from unity

72. The white grainless head in paddy is caused by ________.
   (1) *Oseolia oryzae*  
   (3) *Nymphula depunctalis*  
   (2) *Scirpophaga incertulas*  
   (4) *Leptocorisa acuta*

73. Monitoring of pest in an area is done by using:
   (1) Pheromone traps  
   (3) Coloured traps  
   (2) Sticky traps  
   (4) Crop traps

74. Who suggested that, all the genes linked together in a single chromosome will form a linkage group?
   (1) Sulton  
   (3) Muller  
   (2) Bateson  
   (4) None of them

P.T.O.
75. Cross of F₁ with either of the parent is called as:
   (1) Test-cross  (2) Back cross  (3) Single cross  (4) Multiple cross

76. What is the terminology for land plants, growing in moist habitat and needs well aerated soils?
   (1) Hydrophytes  (2) Xerophytes  (3) Mesophytes  (4) Halophytes

77. The epidermal cells that generates the setae are
   (1) Trichogens  (2) Tormogens  (3) Telsons  (4) None

78. Mango is harvested without injury to pedicil and when they attain _____ than fully matured ones.
   (1) Three fourth maturity  (2) One half maturity  
   (3) Four fifth maturity  (4) None of above

79. Cross-over percentage never exceeds:
   (1) 10  (2) 50  (3) 30  (4) 75

80. To obtain uniform Progeny which system of breeding is suitable?
   (1) Triple crossing  (2) Close mating  
   (3) Criss crossing  (4) Hybridization

81. In Epigeal germination, the cotyledons are seen to be pushed upward by rapid elongation of what?
   (1) epicotyl  (2) plumule  (3) radicle  (4) hypocotyl

82. Who has rightly described the protoplasm as the "physical basis of life"?
   (1) Huxley  (2) Grew  (3) Von Mohl  (4) Schultz

83. Crop losses caused by insects are estimated on the basis of:
   (1) Surveys  (2) (Economic Threshold Level) ETL  
   (3) (Economic Injury Level) EIL  (4) (General Equilibrium Position) GEP

84. Nematodes as plant pathogens were first reported by ________.
   (1) Needham  (2) Berkeley  (3) Cobb N.A.  (4) Robert Koch

85. Poultry breed developed in India and exported to America and England:
   (1) Sussex  (2) Brahma  (3) Australorp  (4) Orpington
86. In the case of Gifted goods, a fall in their prices tends to:
   (1) make the demand remain constant
   (2) reduce the demand
   (3) increase the demand
   (4) increase the supply

87. Mental or physical reaction taken place in audience as a result of communication process:
   (1) Fidelity
   (2) Audience Response
   (3) Communication gap
   (4) Noise

88. For preservation of juices, syrups jams and jellies ________ chemical is added at specific concentrations.
   (1) Potassium permanganate
   (2) Potassium metabisulphite
   (3) Sodium chloride
   (4) Vinegar

89. Basic operational unit for Extension work in India is:
   (1) District
   (2) Block
   (3) State
   (4) Village

90. The language of honeybees was discovered by ________.
   (1) A.M. Wenner
   (2) Karl Von Frisch
   (3) L.L. Longstroth
   (4) F.G. Smith

91. At present in Maharashtra ________ lakh hectare area is under fruits cultivation.
   (1) 15.5
   (2) 10.5
   (3) 13.5
   (4) 20.5

92. Which one of the following insecticide is a chitin inhibitor?
   (1) Abamectin
   (2) Carbaryl
   (3) Dimulin
   (4) Dimethoate

93. The National Dairy Development Board was setup at Anand in the year ________.
   (1) 1965
   (2) 1969
   (3) 1955
   (4) 1970

94. The storage life of potatoes and onions can be prolonged better by ________.
   (1) Irradiation with gamma rays
   (2) Dehydration
   (3) Sun drying
   (4) Chemical preservation

95. The slow but powerful and effective tool to bring positive change in animal improvement is:
   (1) Mutation
   (2) Selection
   (3) Cross breeding
   (4) Translocation

P.T.O.
96. indicate which of the following group contains only systemic fungicides:
   (1) Vitavax, Bavistin, Calixin  (2) Zirput, Plantavax, Blitox
   (3) Bavistin, Topsin-M, Captan  (4) Planofix, Bavistin, Calixin

97. Normally, the head of Governing Board of Agricultural Technology Management Agency is ________ .
   (1) Superintending Agricultural Officer
   (2) Joint Director of Agriculture
   (3) District Collector
   (4) Agriculture Development Officer

98. Which of the following is Ethylene Scavenger?
   (1) KMnO₄  (2) MnSO₄  (3) K₂S₂O₅  (4) KSO₄

99. Methyl engenol is used as an attractant for controlling ________ .
   (1) Snails and slugs  (2) Fruit fly
   (3) Heliothis armigera  (4) Grasshoppers

100. Due to which hormone the milk secretion is inhibited?
    (1) Adranales  (2) Lactogen  (3) Galactin  (4) Oxytocin

101. Disease which occurs all over the world and cause mass mortality?
     (1) Endemic  (2) Sporadic  (3) Epidemic  (4) Pandemic

102. Slime mold fungi belongs to the class ________ .
     (1) Zygomycetes  (2) Oomycetes
     (3) Myxomycetes  (4) Chytridiomycetes

103. What is the duration of baisakhi crop of rangeeni lac strain?
     (1) 4 months  (2) 6 months  (3) 8 months  (4) None

104. Silver shoot in paddy is caused due to infestation by ________ .
     (1) Stem borer  (2) Gall fly  (3) Rice hispo  (4) None

105. All these are quality controlling agencies except:
     (1) FPO  (2) APEDA  (3) HACCP  (4) PFA

106. Which root stock is commercially used for grafting in sapota?
     (1) M-9  (2) Khirani  (3) Olour  (4) Dogridge
107. What is prepared from pectin rich fruits?
   (1) Jam  (2) Squash  (3) Marmalade  (4) Jelly

108. Metathorax is closely associated with first abdominal segment in the order, Hymenoptera, is called as:
   (1) Somite  (2) Metanotum  (3) Propodeum  (4) Segment

109. The flower crop gladiolus is commercially propagated by ________.
   (1) Rhizomes  (2) Bulbs and bulblets  (3) Corms and cormels  (4) Seeds

110. Which of the following is not used as stabilizer in ice-cream making?
   (1) Sodium alginate  (2) Gelatin  (3) Carboxyl Methyl Cellulose  (4) Lecithin

111. Among the following projects, which one was not sponsored by ICAR:
   (1) Operational Research Project  (2) Training and Visit System  (3) Lab to Land Programme  (4) National Agricultural Research Project

112. Which was the first pigeon pea hybrid developed on the basis of CGMS system?
   (1) ICHEL-8  (2) GTH-1  (3) PPH-4  (4) AKPH-1

113. Which term is used for a sex form where only staminate flowers are borne on one plant and bisexual flowers on another plant of the same variety or species?
   (1) Androecious  (2) Andromonecious  (3) Androdioecious  (4) Hermaphrodite

114. The National Co-operative Development Corporation (NCDC) was established in the year:
   (1) 1960  (2) 1961  (3) 1962  (4) 1963

115. Maslow's model of need hierarchy puts one of the following stages on top:
   (1) Satisfaction  (2) Need fulfillment  (3) Self actualisation  (4) Victory

116. What is the name for donor parent in Back Cross method on the other hand?
   (1) Recurrent parent  (2) Nonrecurrent parent  (3) Superior parent  (4) Recipient parent

P.T.O.
117. When the cross between same parents involved in normal cross wherein male parent of normal cross will become female parent and female becomes male parent, the cross is termed as _________.

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<tr>
<td>(1) Double cross</td>
<td>(2) Back cross</td>
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<td>(3) Reciprocal cross</td>
<td>(4) Test cross</td>
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118. Give the name of a fruit type in which fruit is a modified berry, the rind is not edible and juice remain in special structure known as vesicle.

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<tr>
<td>(1) Drupe</td>
<td>(2) Hesperidium</td>
<td>(3) Pome</td>
<td>(4) Aggregate fruit</td>
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119. The table salt is fortified with Iodine to avoid which disease in population?

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<td>(1) Scurvy</td>
<td>(2) Goiter</td>
<td>(3) Anemia</td>
<td>(4) Pellagra</td>
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120. The vegetable ________ is commercially cultivated under protected (polyhouse) condition nowadays in Maharashtra.

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<td>(1) Brinjal</td>
<td>(2) Hot Chilli</td>
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<td>(3) Coloured Capsicum</td>
<td>(4) Cucumber</td>
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121. ATIC stands for _________.

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<tr>
<td>(1) Agricultural Trade Information Centre</td>
<td>(2) Agricultural Technology Information Centre</td>
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<tr>
<td>(3) Agricultural Training and Information Centre</td>
<td>(4) Agricultural Trading Information Campaign</td>
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122. The gap between money incomes of the community and the available supply of output of goods and services is:

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<tr>
<td>(1) Deflation</td>
<td>(2) Disinflation</td>
<td>(3) Inflation</td>
<td>(4) None of these</td>
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123. What is the terminology for an individual carrying chromosome number other than 2n?

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<tr>
<td>(1) Haploid</td>
<td>(2) Diploid</td>
<td>(3) Heteroploid</td>
<td>(4) Polyploid</td>
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124. The concept of defence mechanism is incorporated in:

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<td>(1) Personality development</td>
<td>(2) Abnormal behaviour</td>
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<td>(3) Physical traits</td>
<td>(4) Emotions</td>
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125. Apron 35 SD is _________.

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<tr>
<td>(1) Fumigant Fungicide</td>
<td>(2) Metalaxyl Fungicide</td>
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<tr>
<td>(3) Carbamate Insecticide</td>
<td>(4) Fumigant Nematicide</td>
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126. Which of the following is a Self-liquidating loan?
   (1) Medium term loan  (2) Long term loan
   (3) Crop loan        (4) None of the above

127. Under which plan, “Kisan Credit Card Scheme” was introduced?
   (1) VI           (2) VII         (3) VII
   (4) IX

128. D.N.A. (Deoxyribonucleic acid) and R.N.A. (Ribonucleic acid) are the most important components of ________.
   (1) Cytoplasm   (2) Cell wall  (3) Chromosome  (4) Mitochondria

129. In B.T. cotton, the main purpose of breeding through genetic engineering is for ________.
   (1) Disease resistance  (2) Pest resistance
   (3) Stress resistance   (4) Quality control

130. It is a plan of activities to be undertaken in a particular time sequence:
   (1) Plan of work   (2) Calendar of work
   (3) Programme     (4) Evaluation

131. Swelling of certain part in fruit plant due excess of moisture is known as:
   (1) Fascination   (2) Odema     (3) Watercore  (4) Phyllody

132. Which is the CO₂ acceptor in C₃ plants?
   (1) Phosphoenol pyruvate (2) Ribulose bisphosphate
   (3) Glycolate            (4) Oxaloacetate

133. The weight in grams of 900 m long silk filament is called as ________.
   (1) Rendita  (2) Denier  (3) Fibroin  (4) Sericin

134. Select a systemic fungicide from the following:
   (1) Thiram     (2) Carbanazim (3) Dithane M-45  (4) CuSO₄

135. Which is the best season for successful grafting in mango?
   (1) Rainy season  (2) Winter season
   (3) Summer season (4) Off season

136. Oleocellosis commonly observed in:
   (1) Mango       (2) Banana   (3) Citrus     (4) Papaya

P.T.O.
137. The rational use of agricultural resources from national angle is obtained through:
   (1) Farm management   (2) Production Economics
   (3) Micro-economics   (4) Agricultural Finance

138. Pink bollworm of cotton pupates in:
   (1) Soil   (2) Seed   (3) Boll   (4) Stem

139. What is the name for the transmission of character from parents to offspring, governed by cytoplasmic gene?
   (1) Extranuclear inheritance   (2) Nuclear inheritance
   (3) Mendelian inheritance   (4) None of these

140. What should be the purity percentage in nucleus seed?
   (1) 100%   (2) 80%   (3) 50%   (4) 40%

141. The term gene silencing was firstly used by _______ in 1970.
   (1) Ohno   (2) Khurana   (3) Mendle   (4) Burton

142. Cereal proteins are generally deficient in:
   (1) Methionine   (2) Lysine   (3) Tryptophan   (4) All of above

143. What is the minimum content of milk fat in the cream?
   (1) 10%   (2) 15%   (3) 20%   (4) 25%

144. Which hybrid of brinjal is released by MPKV Rahuri?
   (1) Vaishali   (2) Krishna   (3) Pragati   (4) Jwala

145. Metaldehyde is an ________
   (1) Acaricide   (2) Rodenticide   (3) Molluscicide   (4) None

146. Mark out the vegetable which is not belonging to the cruciferae family from the following:
   (1) Cabbage   (2) Cauliflower   (3) Okra   (4) Broccoli

147. Inherent ability of plant cell or tissue to develop into entire plant after proper stimulation is called:
   (1) Morphogenesis   (2) Parthenogenesis
   (3) Totipotency   (4) Organogenesis

148. The central problem in getting the adults to learn is:
   (1) Age   (2) Lack of motivation
   (3) Sex   (4) Lack of literacy
149. Death of seedlings due to lesion on stem at root level is called as?
(1) Dieback (2) Gall (3) Epinasty (4) Damping off

150. Which is the specific term used for the process when plant is subjected to cool temperature treatment for the promotion or enhancement of growth or flowering?
(1) Scarification (2) Cold water treatment (3) Vernalization (4) Stratification

151. Which one of the following diseases are caused by members of the order Uredinales?
(1) Smut diseases (2) Rust diseases (3) Downy mildew diseases (4) Powdery mildew diseases

152. Which is the best variety of tomato for processing?
(1) Roma (2) Phule Raja (3) Bhagyashree (4) Rajeshree

153. Fermentation in bread making is brought about by the use of _______.
(1) Yoghust (2) Lactic acid (3) Yeast (4) Vinegar

154. _______ are the expression of the ends towards which our efforts are directed.
(1) Objectives (2) Principles (3) Needs (4) Interests

155. Process of transpiration in plants helps in:
(1) Absorption of CO₂ (2) Upward conduction (3) Opening of stomato (4) None of these

156. Principle of plant disease management applicable for control of disease in already established crop is:
(1) Avoidance (2) Exclusion (3) Eradication (4) Protection

157. Food value of proteins depends upon its:
(1) Amino acids content (2) Fatty acids content (3) Ascorbic acid content (4) Butyric acid content

158. The inflorescence of Corylus is:
(1) Catkine (2) Umbell (3) Corymb (4) Spadix

159. Which one of the following State started Panchayati Raj System first in India?
(1) Maharashtra (2) Rajasthan (3) Karnataka (4) Punjab

160. Which curve can be drawn to indicate all possible combinations of two inputs which can be purchased with a given outlay of funds?
(1) ISO cost line (2) ISO quant (3) ISO cline (4) Expansion path

P.T.O.
161. For successful role playing requires good amount of _______.
   (1) Publicity  (2) Empathy  (3) Negative Attitude  (4) Heterophily

162. Disease resistance in plant when governed by only one pair of genes is referred to as _______.
   (1) Monogenic  (2) Polygenic  (3) Oligogenic  (4) Horizontal

163. A speculator who excepts that the prices of a security would fall by a next statement day is:
   (1) Bull  (2) Stag  (3) Bear  (4) Lame duck

164. Which variety of onion is recommended for early rabi season (Rangada)?
   (1) N-2-4-1  (2) Phule Baswant  (3) Phule Samarth  (4) N-257-1

165. Principle of whole family approach envisages:
   (1) Low income low risk measures  (2) Fulfilment of short term needs
   (3) All inclusive development  (4) Women empowerment

166. In plant suspended growth which coincide unfavourable climate is known as:
   (1) Quiescence  (2) Double dormancy  (3) Spontaneous dormancy  (4) Innate

167. For inducing more number of adventitious roots on cuttings of difficult to root crop _______ growth regulator is mostly used.
   (1) Gibberellins  (2) Indole butyric acid  (3) Abscisic acid  (4) Ethylene

168. The process by which new ideas spread from origin to its ultimate users is known as:
   (1) Evolution  (2) Assimilation  (3) Diffusion  (4) Accommodation

169. _______ is the activity of influencing people to cooperate towards some goal which they come to find desirable.
   (1) Forgetting  (2) Remembering  (3) Leadership  (4) Complexity

170. Konkan Durangi is a variety of _______ crop.
   (1) Colocasia  (2) Pokla  (3) Rajgira  (4) Palak
171. 'Buchy Top' the disease of Banana is introduced in India from:
(1) Pakistan (2) Bangladesh (3) Sri Lanka (4) China

172. The bio-aesthetically well planned city in India is:
(1) New Delhi (2) Mumbai (3) Bangalore (4) Chandigarh

173. Mark out the name of the crop which is not suitable for dryland cultivation under Maharashtra condition:
(1) Ber (2) Pineapple (3) Aonla (4) Annona

174. The headquarter of Commonwealth Institute of Biological control is situated at ________ .
(1) Bangalore (India) (2) Trinidad (West Indies) (3) Durban (South Africa) (4) Sydney (Australia)

175. Which one of the following is a parasite of insect?
(1) Braconidfly (2) Dragonfly (3) Chrysoperla (4) Praying mantis

176. Which of the following fruit has 39% Fe in fresh form?
(1) Pomegranate (2) Date palm (3) Karenda (4) Grape

177. Yellowing of Plants due to lack of light is called ________ .
(1) Chlorosis (2) Fasciation (3) Albinism (4) Etiolation

178. A study of different communities living in a particular climate is known:
(1) Community ecology (2) Population ecology (3) Biome ecology (4) Gene ecology

179. What for e-learning is useful?
(1) Class room education (2) Out of school education (3) Marketing (4) Scientific information

180. Most fresh vegetables and fruits are:
(1) Low in moisture, protein and fat
(2) High in moisture, protein and fat
(3) High in moisture, low in protein and fat
(4) Low in moisture, high in protein and fat

P.T.O.
181. Resistance to organophosphates, carbamates and pyrethrroids can be overcome by ________.
   (1) Dioxynphenyl
   (3) Piperonyl Butoxide
   (2) Triphenyl Phosphate
   (4) Dibutyl Carbamates

182. The capacity of the seed to remain capable of germination for some specific period of time is called as ________.
   (1) Seed viability
   (3) Seed germination
   (2) Seed testing
   (4) Seed dormancy

183. Which of the following smut is intervernally seed-borne?
   (1) Loose smut of Sorghum
   (3) Smut of maize
   (2) Smut of pearl millet
   (4) Loose smut of wheat

184. One of the oldest methods used for preservation of foods is:
   (1) Steaming
   (3) Chilling
   (2) Sun drying
   (4) Irradiation

185. It means feeling of an individual towards or against something:
   (1) Attitude
   (3) Prejudices
   (2) Emotions
   (4) Interest

186. The suitable temperature for tuberization in potato is:
   (1) 28-30°C
   (3) 22-24°C
   (2) 18-20°C
   (4) 10-15°C

187. The social tendency to resist changes and new or improved practices results in:
   (1) Competition
   (3) Assimilation
   (2) Cultural lag
   (4) Migration

188. The movement of water through microspores of growing medium owing to the adhesion of water molecules to the medium is called as ________.
   (1) Gravitational water
   (3) Available water
   (2) Capillary water
   (4) None of above

189. Which flower crop is commercially cultivated in polyhouse?
   (1) Marigold
   (3) Gerbera
   (2) Jasmine
   (4) Tuberose

190. Enzyme causing rancid flavour to milk and milk products:
   (1) Amylase
   (3) Lipase
   (2) Phosphatase
   (4) Protease

191. For sweet oranges and mandar in oranges ________ is the best root stock used for protection against phytopthora.
   (1) Jambheri
   (3) Grape fruit
   (2) Rangapur lime
   (4) Sweet orange seedling
192. In extension education, which one of the following approach is preferred?
(1) Autocratic approach  (2) Democratic approach
(3) Lessaiz fair approach  (4) None of the above

193. The cell derived through fusion of one male and one female gamete with 2X chromosome numbers which develops into new individual through mitosis is called _________.
(1) Zygote  (2) Egg cell  (3) Seed  (4) Pollen

194. Which growth regulator is commercially utilised for profuse rooting in guava layers?
(1) IBA  (2) GA  (3) CCC  (4) 2, H-D

195. What is the recommended temperature of AV at the time of collection of semen?
(1) 7°C  (2) 25°C  (3) 45°C  (4) 39°C

196. In pedigree breeding single plant is selected in which of following generation?
(1) F9  (2) F3  (3) F2  (4) F4

197. The varieties Diana and Dinkar are improved varieties of commercial importance of _______ crop.
(1) Mango  (2) Annona  (3) Citrus  (4) Fig

198. He is the grass root extension worker in T and V system:
(1) Extension officers  (2) Subject matter specialists
(3) Village extension worker  (4) Farmer himself

199. Which of following root-stock is used for preparation of Rose Standard?
(1) Rosa rubiginous  (2) R. multiflora
(3) R. bourtonina  (4) None of these

200. A cotton disease prevalent in Pakistan now causing threat to cotton growers in Punjab, India:
(1) Anthracnose  (2) Bacterial blight
(3) Wilt  (4) Leaf curl virus