

### सूचना

- (1) सदर प्रश्नपुस्तिकेत 200 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक	<table border="1" style="margin: auto;"> <tr> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> <td style="width: 10px; height: 20px;"> </td> </tr> </table>											
	<p>↑ केंद्राची संकेताक्षरे</p>	<p>↑ शेवटचा अंक</p>										

- (2) आपला परीक्षा क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी, ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण **एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे.** अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवारांच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. त्या प्राप्त गुणांतून त्यांनी उत्तरपत्रिकेत चुकीची उत्तरे नमूद केल्याबद्दल गुण वजा केले जाणार नाहीत.
- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारांवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82" यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) -----> (कृपया पान उलटवा)

### ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

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- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे 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  |

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

प्र.क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे. पेन्सिल वा शाईचे पेन वापरू नये.

पर्यवेक्षकांच्या सूचनेविना हे पृष्ठ उलटू नये

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

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) Supplemmentarity                      (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) Ethnel                      (2) GA                      (3) IAA                      (4) NAA
- 
27. The Calvin Bension 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) 1<sup>st</sup> April, 1994                      (2) 1<sup>st</sup> April, 1995  
(3) 1<sup>st</sup> January, 1994                      (4) 1<sup>st</sup> 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 \_\_\_\_\_ .
- |                      |                    |
|----------------------|--------------------|
| (1) Micropropagation | (2) Totipotency    |
| (3) Pollen culture   | (4) Embryo culture |
- 
33. Which commercial rootstock is recommended for sweet orange in Maharashtra ?
- |                  |                 |
|------------------|-----------------|
| (1) Rangpur Lime | (2) Rough Lemon |
| (3) Sour Orange  | (4) Cleopatra   |
- 
34. Who among the following considered as a Father of Sociology ?
- |                      |                   |
|----------------------|-------------------|
| (1) Dr. B. Chitamber | (2) August Compte |
| (3) Dr. A.R. Desai   | (4) Spencer Hatch |
- 
35. The Basic philosophy of Extension education is :
- |                |                |                  |                  |
|----------------|----------------|------------------|------------------|
| (1) Compulsion | (2) Persuasion | (3) Co-operation | (4) Assimilation |
|----------------|----------------|------------------|------------------|
- 
36. The first type of Co-operative Societies established in India were :
- |                                   |                         |
|-----------------------------------|-------------------------|
| (1) Credit Co-operative Societies | (2) Marketing Societies |
| (3) Agricultural Societies        | (4) Housing Societies   |
- 
37. Who is the person to provide a proper measure for consumer's surplus ?
- |                |                     |
|----------------|---------------------|
| (1) Adam Smith | (2) A.J. Dupuit     |
| (3) J.R. Hicks | (4) Alfred Marshall |
- 
38. Which of the following doesnot affect milk yield of animal ?
- |               |                          |
|---------------|--------------------------|
| (1) Breed     | (2) Frequency of milking |
| (3) Pregnancy | (4) None of these        |
- 
39. Process of removing off flavours from milk is :
- |                   |                    |
|-------------------|--------------------|
| (1) Vaccination   | (2) Homogenization |
| (3) Sterilization | (4) Pasteurization |
- 
40. Normally, flash cards for the convenient presentation happen to be the size of \_\_\_\_\_ .
- |                        |                            |
|------------------------|----------------------------|
| (1) 7" × 7" or 9" × 9" | (2) 10" × 10" or 12" × 12" |
| (3) 7" × 7" or 8" × 8" | (4) 16" × 16" or 18" × 18" |
- 
41. Causal organism of paddy blast is :
- |                               |                              |
|-------------------------------|------------------------------|
| (1) <i>Saroclodium oryzae</i> | (2) <i>Rizoctonia oryzae</i> |
| (3) <i>Pyricularia oryzae</i> | (4) None of the above        |
-



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
-

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) Protoplasmic
- 
57. Farmers seeking farm information from peer group is an example of :  
(1) Group contact                      (2) Cosmopolite 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* (2) *Puccinia recondita*  
(3) *Puccinia erianthi* (4) *Puccinia striiformis*
- 
65. Which of the following entomopathogen is extensively used for effective control of many Lepidopterous Insect-Pests.  
(1) *Verticillium lecanii* (2) *Bacillus thuringiensis*  
(3) *Clostridium spp.* (4) *Bacillus popilliae*
- 
66. Which one of the following pathogens are transmitted by insect vectors ?  
(1) Fungi (2) Nematodes (3) Viruses (4) Bacteria
- 
67. Shoestring like leaf is the most typical symptom of the disease \_\_\_\_\_ .  
(1) Papaya bunchy top (2) Little leaf of Brinjal  
(3) Papaya ring spot (4) Leaf curl of tomato
- 
68. In which year Indian council of Agricultural Research was set up ?  
(1) 1929 (2) 1939 (3) 1936 (4) 1950
- 
69. Which fruit crop is grown under rainfed conditions ?  
(1) Aonla (2) Sapota (3) Gooseberry (4) Banana
- 
70. Which is the outer part of the earth's crust ?  
(1) Lithosphere (2) Biosphere (3) Hydrosphere (4) Ecosphere
- 
71. Which is the respiratory quotient, when sugars are consumed in respiration as mostly cereals ?  
(1) less than unity (2) more than unity  
(3) equal to unity (4) far from unity
- 
72. The white grainless head in paddy is caused by \_\_\_\_\_ .  
(1) *Orseolia oryzae* (2) *Scirpophaga incertulas*  
(3) *Nymphula depunctalis* (4) *Leptocorisa acuta*
- 
73. Monitoring of pest in an area is done by using :  
(1) Pheromone traps (2) Sticky traps  
(3) Coloured traps (4) Crop traps
- 
74. Who suggested that, all the genes linked together in a single chromosome will form a linkage group ?  
(1) Sulton (2) Bateson (3) Muller (4) None of them
-

75. Cross of  $F_1$  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 pedicel 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 Giffen 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) Dimilin
  - (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
-

96. Indicate which of the following group contains only systemic fungicides :
- (1) Vitavax, Bavistin, Calixin                      (2) Zirum, 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)  $\text{KMnO}_4$                       (2)  $\text{MnSO}_4$                       (3)  $\text{K}_2\text{S}_2\text{O}_5$                       (4)  $\text{KSO}_4$
- 
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 bulbils  
(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 pigeonpea hybrid developed on the basis of CGMS system ?  
(1) ICPH-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. Maslows model of need hierarchy puts one of the following stages on top :  
(1) Satisfaction (2) Need fulfilment  
(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
-

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 \_\_\_\_\_ .
- (1) Double cross (2) Back cross  
(3) Reciprocal cross (4) Test cross
- 
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.
- (1) Drupe (2) Hesperidium (3) Pome (4) Agregate fruit
- 
119. The table salt is fortified with Iodine to avoid which disease in population ?
- (1) Scurvy (2) Goiter (3) Anemia (4) Pellagra
- 
120. The vegetable \_\_\_\_\_ is commercially cultivated under protected (polyhouse) condition nowadays in Maharashtra.
- (1) Brinjal (2) Hot Chilli  
(3) Coloured Capcicum (4) Cucumber
- 
121. ATIC stands for \_\_\_\_\_ .
- (1) Agricultural Trade Information Centre  
(2) Agricultural Technology Information Centre  
(3) Agricultural Training and Information Centre  
(4) Agricultural Trading Information Campaign
- 
122. The gap between money incomes of the community and the available supply of output of goods and services is :
- (1) Deflation (2) Disinflation (3) Inflation (4) None of these
- 
123. What is the terminology for an individual carrying chromosome number other than  $2n$  ?
- (1) Haploid (2) Diploid (3) Heteroploid (4) Polyploid
- 
124. The concept of defence mechanism is incorporated in :
- (1) Personality development (2) Abnormal behaviour  
(3) Physical traits (4) Emotions
- 
125. Apron 35 SD is \_\_\_\_\_ .
- (1) Fumigant Fungicide (2) Metalaxyl Fungicide  
(3) Carbamate Insecticide (4) Fumigant Nematicide
-



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) VIII (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 CO<sub>2</sub> acceptor in C<sub>3</sub> 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) Carbendazim (3) Dithane M-45 (4) CuSO<sub>4</sub>
- 

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
-

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 CO<sub>2</sub> (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 outlax of funds ?  
(1) ISO cost line (2) ISO quant  
(3) ISO cline (4) Expansion path
-

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 expects 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) Abscissic 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. 'Bucky 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 mantid
- 

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
-

181. Resistance to organophosphates, carbamates and pyrethroids can be overcome by \_\_\_\_\_ .  
 (1) Dioxyphenyl (2) Triphenyl Phosphate  
 (3) Piperonyl Butoxide (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 (2) Seed testing  
 (3) Seed germination (4) Seed dormancy
- 
183. Which of the following smut is intervernally seed-borne ?  
 (1) Loose smut of Sorghum (2) Smut of pearl millet  
 (3) Smut of maize (4) Loose smut of wheat
- 
184. One of the oldest methods used for preservation of foods is :  
 (1) Steaming (2) Sun drying (3) Chilling (4) Irradiation
- 
185. It means feeling of an individual towards or against something :  
 (1) Attitude (2) Emotions (3) Prejudices (4) Interest
- 
186. The suitable temperature for tuberization in potato is :  
 (1) 28-30°C (2) 18-20°C (3) 22-24°C (4) 10-15°C
- 
187. The social tendency to resist changes and new or improved practices results in :  
 (1) Competition (2) Cultural lag (3) Assimilation (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 (2) Capillary water  
 (3) Available water (4) None of above
- 
189. Which flower crop is commercially cultivated in polyhouse ?  
 (1) Marigold (2) Jasmine (3) Gerbera (4) Tuberose
- 
190. Enzyme causing rancid flavour to milk and milk products :  
 (1) Amylase (2) Phosphatase (3) Lipase (4) Protease
- 
191. For sweet oranges and mandar in oranges \_\_\_\_\_ is the best root stock used for protection against phytophthora.  
 (1) Jambheri (2) Rangapur lime  
 (3) Grape fruit (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) F<sub>9</sub> (2) F<sub>3</sub> (3) F<sub>2</sub> (4) F<sub>4</sub>
- 
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. bourbonina* (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
-

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK