

- 107 The letter 'b' in the production function,  $Y = a+bx$  is
- (A) Dependent variable (B) Independent variable  
(C) Intercept (D) None of the above
- 108 How many thousand eggs are produced by Honey bee queen per day ?
- (A) 0.5 – 1.5 (B) 2.0 – 3.0  
(C) 4.0 – 4.5 (D) 5.0 – 5.5
- 109 In a normal distribution
- (A) Mean and median are equal  
(B) Mean and mode are equal  
(C) Median and mode are equal  
(D) Mean, median and mode are equal
- 110 The terms 'Isotops' mean
- (A) Same number of neutrons  
(B) Same number of electrons  
(C) Same number of protons  
(D) None of the above
- 111 Mango mealy bug is
- (A) Apsilla sp. (B) Drosicha sp.  
(C) Virachola sp. (D) None of the above
- 112 Modification of floral parts into leafy structures by pathogenic infection is called
- (A) Phyllody (B) 'Witch' broom  
(C) Hyperplasia (D) Hypertrophy

- 113 Which one of the following is to be suggested in case of failure of a manually operated sprayer to retain pressure ?
- (A) Tightening of loose nuts and clamps and replacement of Gaskets
  - (B) Opening the nozzle and cleaning its various parts especially the orifice
  - (C) Straightening the plunger rod if found bent
  - (D) Tightening of the lid of the tank, replacement of the Gasket, if necessary
- 114 Measurement of Sunlight intensity is expressed in
- (A) Calories
  - (B) Millibars
  - (C) Lux units
  - (D) Megajoules
- 115 Aflatoxin in groundnut is resulting of
- (A) Alternaria
  - (B) Staphylococcus aureus
  - (C) Fusarium
  - (D) Aspergillus flavus
- 116 NABARD Act was passed in
- (A) 1982
  - (B) 1878
  - (C) 1981
  - (D) 1979
- 117 Pilot seed crop insurance scheme was introduced from the Rabi season
- (A) 1991-92
  - (B) 1999-2000
  - (C) 2001-2002
  - (D) 2009-2010
- 118 Agriculture clinic and Agriculture business centres scheme was launched in the year
- (A) 1998
  - (B) 2002
  - (C) 2004
  - (D) 2010

- 119 Kishan call centre answering farmers queries during the time
- (A) From 6.00 AM to 10.00 AM on all 7 days a week
  - (B) From 6.30 AM to 6.30 PM on 6 days a week
  - (C) From 5.30 AM to 8.30 PM on 5 days a week
  - (D) From 6.15 AM to 7.15 PM on all 7 days a week
- 120 PEO was set up in 1952 as an independent organization under General Guidance and direction of
- (A) Reserve Bank
  - (B) Ministry of Agriculture
  - (C) Finance Commission
  - (D) Planning Commission
- 121 Which one of the following does not constitute a part of the jurisdiction of WTO ?
- (A) Trade related tariff and non tariff barriers
  - (B) Trade related intellectual property rights
  - (C) Regional trade agreement
  - (D) Agreement related to agriculture
- 122 Who amongst the following was awarded the "World Economic Prize-2007" (Kiel Prize) ?
- (A) Lalu Prasad Yadav
  - (B) P. Chidambaram
  - (C) Amartya Sen
  - (D) Manmohan Singh
- 123 Scientific study of birds is known as
- (A) Limnology
  - (B) Herpetology
  - (C) Malacology
  - (D) Ornithology

- 124 Which of the following compounds found in all living organism are rich in phosphorus ?
- (A) Carbohydrates (B) Fats  
(C) Nucleic acids (D) Proteins
- 125 About 85% of the raw silk produced in India comes from
- (A) Kerala (B) Madhya Pradesh  
(C) Maharashtra (D) Karnataka
- 126 When total product remains constant the marginal product will be
- (A) Zero (B) Negative  
(C) Positive (D) Constant
- 127 The total production of food-grain of Gujarat during year 2010-11 was
- (A) 90.80 lakh tons (B) 100.71 lakh tons  
(C) 110.90 lakh tons (D) 120.90 lakh tons
- 128 The production of cotton during year 2010-11 of Gujarat was estimated
- (A) 98.25 lakh bales (B) 78.30 lakh bales  
(C) 85.35 lakh bales (D) 75.35 lakh bales
- 129 The apex body to approve State Extension Work Plan is
- (A) State level sanctioning committee (SLSC)  
(B) State Extension Work Plan (SWEP)  
(C) State Agriculture Plan (SAP)  
(D) State Nodel Cell (SNC)

- 130 Puppets show in village as a method for transfer of technology is an example of
- (A) Mass Media (B) Group Media  
(C) Individual Media (D) Tribal Media
- 131 Site useful for insertion of foreign DNA
- (A) Initiation of replication site of DNA  
(B) Termination site of DNA  
(C) Cleavage site  
(D) None of the above
- 132 In tomato, antifreeze gene has been transferred from
- (A) Arabidopsis (B) Fish  
(C) Chicken (D) Duck
- 133 The process of differentiation of root and shoot from somatic embryos in culture medium is called
- (A) Gametogenesis (B) Sporogenesis  
(C) Organogenesis (D) Embryogenesis
- 134 In short run Average cost, Average variable cost and Marginal cost curves are 'U' shaped due to the operation of
- (A) Law of variable proportion  
(B) Law of equimarginal return  
(C) Law of substitution  
(D) Law of comparative advantage



- 135 An open pollinated variety is used as tester in
- (A) Simple recurrent selection
  - (B) Reciprocal recurrent selection
  - (C) Recurrent selection for SCA
  - (D) Recurrent selection for GCA
- 136 A new variety which is to be registered under PVP Act is called
- (A) Example variety
  - (B) Extent variety
  - (C) Reference variety
  - (D) Candidate variety
- 137 In which one of the following store grain pest, only larvae cause damage?
- (A) Khapra beetle
  - (B) Rice weevil
  - (C) Red flour beetle
  - (D) All the above
- 138 In cotton drying and dropping of terminal shoots during preflowering stage followed by shedding of squares and bolls is caused by
- (A) *Helicoverpa armigera*
  - (B) *Pectinophora gossypiella*
  - (C) *Spodoptera litura*
  - (D) *Earias vitella*
- 139 *Trichogramma minutum* is
- (A) Larval parasite
  - (B) Pupal parasite
  - (C) Egg parasite
  - (D) Adult parasite
- 140 Yellow vein mosaic of okra is caused by
- (A) Gemini virus
  - (B) Poty virus
  - (C) Potex virus
  - (D) Como virus

- 141 Alternate host of bajara rust is
- (A) Wheat (B) Brinjal  
(C) Groundnut (D) Barberry
- 142 Domestic quarantine exist in India for
- (A) Potato scab (B) Potato virus  
(C) Potato wart (D) Potato lateblight
- 143 Which fungicide is recommended for control of phytophthora blight of sesame ?
- (A) Carbendazim (B) Ridomil MZ  
(C) Hexaconzole (D) Propiconazole
- 144 The concept of minimum tillage was started in
- (A) U.S.A. (B) Switzerland  
(C) India (D) Germany
- 145 Which of the following organism fix nitrogen under anaerobic condition ?
- (A) Rhizobium (B) Blue green alga  
(C) Azotobactor (D) Azospirillum
- 146 Potassium deficiency symptoms in plants appear in first in
- (A) Lower most leaves (B) Upper most leaves  
(C) Middle leaves (D) All of these

147. Ratooning is practiced as a matter of routine in
- (A) Sugarcane and Sugarbeet      (B) Sugarcane and Maize  
 (C) Sugarcane and Napier grass    (D) Sugarcane only
148. DAPOG method of crop raising is associated with
- (A) Inter culture operation      (B) Nursery raising  
 (C) Seed bed preparation        (D) None of these
149. Which clay mineral has highest phosphate adsorbing capacity ?
- (A) Illite                              (B) Kaolinite  
 (C) Montmorillonite                (D) Chlorite
150. Under water logged condition which nutrient occurs in toxic condition ?
- (A) Fe                                  (B) Zn  
 (C) Cu                                 (D) P
151. It is found to formed nodules both in roots and stem and is most important host plant for the symbiotic  $N_2$  fixation
- (A) Dhaicha                            (B) Cowpea  
 (C) Cluster bean                      (D) Mung bean
152. The soil having more than 30 per cent organic matter is placed in
- (A) Oxisols                            (B) Aridisols  
 (C) Histosols                         (D) Alfisols
153. The indicator used in determination of organic carbon from soil is
- (A) Methylene blue                 (B) Diphenyl amine  
 (C) Methyl orange                 (D) Methyl red



- 154 Sulphate of potash is preferable to muriate of potash (MOP) for tobacco because
- (A) The chlorine in murite of potash (MOP) affect burning quality of tobacco
  - (B) The chlorine in murite of potash (MOP) increase the nicotine
  - (C) The sulphate ions helps to increase the availability of other nutrients
  - (D) None of these
- 155 Electric conductivity of saturation extract of saline – sodic soil in m mhos per cm is
- (A) 2.0
  - (B) 2.0 – 3.0
  - (C) 3.0 – 4.0
  - (D) More than 4.0
- 156 Indole acetic acid belongs to which one of the following groups of plant growth hormone ?
- (A) Gibberellins
  - (B) Kinetin
  - (C) Auxins
  - (D) Vitamins
- 157 Age of broiler
- (A) 2-4 weeks
  - (B) 4-6 weeks
  - (C) 6-8 weeks
  - (D) 8-12 weeks
- 158 Conception rate in artificial insemination (AI)
- (A) 38-55%
  - (B) 48-65%
  - (C) 58-75%
  - (D) 68-75%
- 159 The stage when animal comes in heat
- (A) Proestrus
  - (B) Estrus
  - (C) Metestrus
  - (D) Diestrus

- 160 In Gujarat state meteorological centre is situated at.....
- (A) Surat (B) Gandhinagar  
(C) Ahmedabad (D) Vadodara
- 161 Ukai kakrapara project is on the river
- (A) Mahi (B) Tapi  
(C) Sabarmati (D) Ozat
- 162 In which crops flame peeling is used ?
- (A) Mango and papaya (B) Onion and Garlic  
(C) Tomato and Potato (D) Radish and Carrot
- 163 Sugar as a preservative works on the principle of
- (A) Absorption (B) Diffusion  
(C) Osmosis (D) Fermentation
- 164 Freezing of fruits and vegetables at very low temperature i.e. below  $-60^{\circ}\text{C}$  is
- (A) Dehydro Freezing (B) Air blast freezing  
(C) Cryogenic freezing (D) Deep freezing
- 165 What is ideal stage of harvesting of cut flowers ?
- (A) Bud opening stage (B) Loose flower stage  
(C) Full open stage (D) Bud stage
- 166 A combine cultivation of trees and grasses is referred as
- (A) Aqua silviculture (B) Agroforestry  
(C) Silvopastoral (D) Silviculture

- 167 A short duration crop in between two main seasonal crops is termed as  
(A) Cash crop (B) Inter crop  
(C) Companion crop (D) Catch crop
- 168 The most common herbicide used for controlling weeds in pulse crop is  
(A) 2-4 D (B) Batachlor  
(C) Atrazine (D) Basalin
- 169 Which one of the following is non selective herbicide ?  
(A) Alachlor (B) Butachlor  
(C) Paraquat (D) Atrazine
- 170 In maize Ganga safed-2 is a  
(A) Single cross hybrid (B) Double cross hybrid  
(C) Three way cross hybrid (D) Double top cross hybrid
- 171 Which gas is released from paddy fields ?  
(A)  $\text{CH}_4$  (B)  $\text{H}_2\text{S}$   
(C)  $\text{CO}_2$  (D)  $\text{NH}_4$
- 172 Rice is classified as  
(A) Short day plant (B) Long day plant  
(C) Day neutral plant (D) None of these
- 173 Most widely used method of soil moisture determination is  
(A) Gravimetric method (B) Gypsum cube  
(C) Tensiometer (D) Neutron method

- 174 Area under dry land agriculture in India is
- (A) 70% (B) 60%  
(C) 50% (D) 40%
- 175 Golden rice is rich source of
- (A) Vitamin A (B) Vitamin B  
(C) Ascorbic acid (D) Vitamin K
- 176 Remote sensing helps in studying
- (A) Cropped area (B) Soil character  
(C) Underground area (D) All of the above
- 177 The origin place of potato is
- (A) China (B) South America  
(C) Tropical America (D) Africa
- 178 I.C.A.R. came into existence
- (A) 1929 (B) 1936  
(C) 1946 (D) 1947
- 179 Number of broad groups into which soil of India have been divided according to morphogenetic approach proposed by USDA
- (A) 18 (B) 24  
(C) 28 (D) 25
- 180 Which of the nitrogenous fertilizer is of amide group ?
- (A) Ammonium Sulphate (B) Urea  
(C) CAN (D) Sodium nitrate



- 181 Tomato leaf curl virus is transmitted by
- (A) Aphid (B) White fly  
(C) Grass hopper (D) Butterfly
- 182 The higher LD<sub>50</sub> value indicates the following
- (A) Neutral (B) Less toxic  
(C) High toxic (D) None of the above
- 183 Lateral side of thorax is called as
- (A) Tergum (B) Pluva  
(C) Sternum (D) None of the above
- 184 Fruit fly lays eggs
- (A) On leaves (B) Inside fruit  
(C) In soil (D) All above
- 185 Which hormones suppress the growth of the plant ?
- (A) Auxin (B) Absciscin acid  
(C) Cytokines (D) Gibberellins
- 186 Value added tax is a/an
- (A) Direct Tax (B) Indirect Tax  
(C) Both (A) and (B) (D) Cannot be classified
- 187 Television broadcast for rural development in India started in
- (A) 1947 (B) 1957  
(C) 1967 (D) 1977

188 Our national policy formulating body for rural development is presided over by

- (A) Prime Minister of India (B) Chairman Planning Commission  
(C) Agriculture Minister (D) President of India

189 ICAR was established based on the recommendation of the

- (A) Ford Foundation (B) Royal Commission  
(C) World Bank (D) European Union

190 The observation recorded from open area of 2 meter of soil surface is called

- (A) Macro climate (B) Micro climate  
(C) Topo climate (D) Local climate

191 Certified seed of cotton should have minimum germination of

- (A) 50% (B) 60%  
(C) 70% (D) 80%

192 The cultivation practices based on GIS, GPS and RSS is called

- (A) Precision farming (B) Multi-storeyed farming  
(C) Conservation farming (D) All of the above

193 Ratio of grain to stalk in pigeon pea is

- (A) 1 : 2 (B) 1 : 3  
(C) 1 : 10 (D) 1 : 6.8

194 Nicotine content in bidi tobacco is

- (A) 1-2% (B) 3-4%  
(C) 5-6% (D) 6-7%

- 195 If LER is less than 1.0, it mean that the inter crop is
- (A) Profitable (B) Not profitable  
(C) No change (D) None of these
- 196 Growing two or more crops simultaneously with no distinct row management is called
- (A) Intensive cropping (B) Inter cropping  
(C) Mixed inter cropping (D) Mixed cropping
- 197 NPK proportion in balanced fertilizer is
- (A) 4 : 1 : 1 (B) 2 : 1 : 1  
(C) 6 : 2 : 1 (D) 6 : 3 : 1
- 198 The science which deals with adult learning is
- (A) Andrology (B) Pedology  
(C) Pedagogy (D) Edachology
- 199 Variable cost is also known as
- (A) Overhead cost (B) Prime cost  
(C) Alternate cost (D) All of the above
- 200 India occupies position in production of onion in world
- (A) First (B) Second  
(C) Third (D) Fourth

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- (A) Profitable  
(B) Not profitable  
(C) No change  
(D) None of these

194 Growing two or more crops simultaneously with no distinct row management is called

- (A) Intensive cropping  
(B) Inter cropping  
(C) Mixed inter cropping  
(D) Mixed cropping

195 NPK proportion in balanced fertilizer is

- (A) 4 : 1 : 1  
(B) 2 : 1 : 1  
(C) 6 : 3 : 1  
(D) 8 : 3 : 1

196 The science which deals with soil learning is

- (A) Aerology  
(B) Pedology  
(C) Edachology  
(D) Edachology

197 Variable cost is also known as

- (A) Overhead cost  
(B) Prime cost  
(C) Alternate cost  
(D) All of the above

પરીક્ષા પૂરી થયા બાદ ઉત્તરવહી (OMR SHEET) વર્ગ નિરીક્ષકને  
પરત કર્યા બાદ જ વર્ગખંડ છોડવાનો રહેશે.  
જો તેમ કરવામાં કસૂર થયેથી શિસ્તભંગનાં પગલાં ગણી  
પરીક્ષા માટે જે તે ઉમેદવારને ગેરલાયક ઠેરવવામાં આવશે.

