

BJN (CBRT)

PROVISIONAL ANSWER KEY

Name of the post

Deputy Director of Horticulture, Class-1, Agriculture, Farmers Welfare and Co-operation Department

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ONWARDS

Instructions / સૂચના

Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -

- (1) All the suggestion should be submitted through **ONLINE OBJECTION SUBMISSION SYSTEM** only. Physical or submission through E- Mail of suggestions will not be considered.
- (2) Question wise suggestion to be submitted in the prescribed format (proforma) published on the website / online objection submission system.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), published herewith on the website / online objection submission system. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed.
- (6) Objection for each question should be made on separate sheet. Objection for more than one question in single sheet shall not be considered.

ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં

- (1) ઉમેદવારે વાંધા-સૂચનો ફક્ત **ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ** દ્વારા જ સબમીટ કરવાના રહેશે. રૂબરૂ, ટપાલ અથવા ઈ-મેઇલ દ્વારા આયોગની કચેરીએ મોકલવામાં આવેલ વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં જેની ખાસ નોંધ લેવી.
- (2) ઉમેદવારે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ / ઓનલાઇન ઓબ્જેક્શન સબમીશન સીસ્ટમ પર પ્રસિધ્ધ થયેલ નિયત નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઇટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર) ના પ્રશ્નક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્રમાં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચનો ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચનો પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

Website link for online objection submission system : <http://gpsc.safevaults.in/login/>

001. In India, contribution of Horticulture to GDP of Agriculture is nearly?
 (A) 33% (B) 42%
 (C) 23% (D) 15%
002. CFTRI is situated at?
 (A) New Delhi (B) Mysore
 (C) Hyderabad (D) Bangalore
003. The square system of planting with 'filler' is known as?
 (A) Contour system (B) Hexagonal system
 (C) Terrace system (D) Diagonal system
004. India is not a largest global producer of?
 (A) Mango (B) Banana
 (C) Sapota (D) Litchi
005. Which country was largest producer and exporter of cashew nut during 2023?
 (A) Cote d'Ivoire (B) China
 (C) India (D) USA
006. Cashew (*Anacardium occidentale* L.) is native to?
 (A) South Africa (B) West Indies
 (C) Eastern Brazil (D) Madagascar
007. Who is known as 'Father of Plant Taxonomy'?
 (A) Theophrastus (B) Carolus Linnaeus
 (C) Armen Takhtajan (D) JP de Tournefort
008. Tangerine fruit is a?
 (A) Balausta (B) Hesperidium
 (C) Capsule (D) Pepo
009. 'Brown Turkey' is a rootstock of?
 (A) Fig (B) Sapota
 (C) Jack Fruit (D) Avocado
010. In dicots, which tissue is important for graft union formation?
 (A) Xylem (B) Phloem
 (C) Cambium (D) Cortex
011. Which of the following is considered as the basic unit of plant taxonomy?
 (A) Specimen (B) Cultivar
 (C) Species (D) Variety
012. 'Metaxenia' is commonly observed in?
 (A) Aonla (B) Fig
 (C) Date palm (D) Bael
013. Loquat trees are typically?
 (A) Deciduous temperate plant (B) Annual tropical plant
 (C) Biennial arid plant (D) Evergreen subtropical plant
014. Which fruit is also referred as 'Chinese date'?
 (A) Aonla (B) Avocado
 (C) Kiwifruit (D) Ber

015. Vernalization is perceived by?
 (A) Leaf (B) Shoot apex
 (C) Stem (D) Flower
016. Which one of the following is an astringent cultivar of Persimmon??
 (A) Fuyu (B) Jiro
 (C) Hachiya (D) Goshō
017. Cultivar “Jolo’ belongs to?
 (A) Apple (B) Pineapple
 (C) Cherry (D) Mangosteen
018. In which fruit crop apetalous (petal less) flowers are forms?
 (A) Passion fruit (B) Persimmon
 (C) Litchi (D) Avocado
019. Which one of the following crop group has shown spectacular performance under High Density plantation?
 (A) Banana, Papaya, Apple, Pineapple (B) Mango, Banana, Citrus, Pineapple
 (C) Papaya, Dragon fruit, Jamun, Litchi (D) Litchi, Mango, Citrus, Guava
020. Skirting and pruning is recommended in?
 (A) Mango (B) Citrus
 (C) Grapes (D) Ber
021. Edible part of Litchi is?
 (A) Fleshy receptacle (B) Fleshy Thalamus
 (C) Fleshy outgrowth of seed (D) Fleshy Peduncle
022. ‘Epigeal’ type of seed germination is found in?
 (A) Citrus (B) Papaya
 (C) Guava (D) Cashew
023. Sib mating is popularly done in?
 (A) Papaya (B) Apple
 (C) Citrus (D) Almond
024. Which of the following is incorrect about Dragon fruit flower?
 (A) Large (B) Actinomorphic
 (C) Nocturnal (D) Diurnal
025. Which of the following formulation is used for the control of flower and fruit drop in ‘natural farming’?
 (A) ‘Khatti lassi’ (B) Septdhanankur ark’
 (C) ‘Dasparni ark’ (D) ‘Brahmastra’
026. Which of the following is a combination of nectarine cultivars?
 (A) Early Grande, Flordasun (B) Sunrise, May Fire
 (C) Sharbati, Shan-*i*-Punjab (D) May Gold, July Elberta
027. Which variety of banana is used for making baby food?
 (A) Nendran (B) Pey Kunnan
 (C) Robusta (D) Pooven

028. 'Alucha Purple' is a variety of?
 (A) Peach (B) Plum
 (C) Apple (D) Cherry
029. Which of the following is reported as the most suitable rootstock for Sapota?
 (A) Rayan (B) Adam's apple
 (C) Mahua (D) Mee tree
030. Which fruit is considered most useful for curing 'diabetes'?
 (A) Apricot (B) Bael
 (C) Guava (D) Jamun
031. Bael takes how much time from flowering to harvesting?
 (A) 6 months (B) 12 months
 (C) 11 months (D) 16 months
032. Prunes refer to the?
 (A) Dried peaches (B) Dried plum
 (C) Dried apricot (D) Dried grapes
033. Which of the following is a late variety of sweet orange?
 (A) Hamlin (B) Jaffa
 (C) Pineapple (D) Valencia
034. 'Graphiola leaf spot' is the most common disease of?
 (A) Date palm (B) Ber
 (C) Aonla (D) Annona
035. "*Amorphophallus paeoniifolius*" is a scientific name of?
 (A) Colocasia (B) Patchouli
 (C) Elephant foot yam (D) Artichoke
036. Which of the following does not have tropical variety?
 (A) Radish (B) Carrot
 (C) Turnip (D) Beet
037. 'Kufri Sheetman' is a variety of?
 (A) Ginger (B) Turmeric
 (C) Sweet Potato (D) Potato
038. A crop, which belongs to cucurbit is?
 (A) Chilli (B) Squash
 (C) Drumstick (D) Asparagus
039. French breakfast is a variety of?
 (A) Okra (B) Radish
 (C) Cow pea (D) All
040. Tomato variety 'RKMT' has been evolved through?
 (A) X-rays (B) Gamma rays
 (C) EMS (D) MMS
041. Cryopreservation is done by liquid nitrogen at temperature of?
 (A) 200°C (B) 0°C
 (C) -196°C (D) 4°C

042. Critical period for crop-weed competition in Brussel sprout happens to be?
 (A) Between 50-60 days after transplanting
 (B) Between 20-30 days after transplanting
 (C) Between 30-50 days after transplanting
 (D) None of these
043. 'Browning in cauliflower can be corrected by the application of?
 (A) Ammonium molybdate (B) Boric acid
 (C) Zinc sulphate (D) Urea
044. Whiptail disorder of cauliflower under acidic soil condition can be controlled by?
 (A) Lime application (B) Gypsum application
 (C) N application (D) Cu application
045. Bt. Brinjal is used against?
 (A) Fruit fly (B) Aphid
 (C) White fly (D) Borer
046. Isolation distance for foundation seed in chilli is?
 (A) 500 m (B) 300 m
 (C) 200 m (D) 100 m
047. Which of the following is/are flower vegetable(s)?
 (A) Cauliflower (B) Broccoli
 (C) Globe Artichoke (D) All of above
048. Turmeric has anti-oxidant property due to phenolic character of?
 (A) Quercetin (B) Curcumin
 (C) Capsaicin (D) Cucurbitacin
049. Capsaicin content present in chilly usually varies in the range?
 (A) 0.35 – 0.75% (B) 1.5 – 2.0%
 (C) 2.2 – 2.5% (D) 1.0 – 1.5%
050. 'Cynogas pump' is a?
 (A) Sprayer (B) Duster
 (C) Flame flower (D) Fumigator
051. Which one is a wind pollinated crop?
 (A) Beets (B) Spinach
 (C) Amaranth (D) All of these
052. Which of the following is often a cross pollinated crop?
 (A) Cow pea (B) French bean
 (C) Tomato (D) Chilli
053. The requirement of cross pollination in Brinjal is due to?
 (A) Heterostyly (B) Chasmogamy
 (C) Cleistogamy (D) Homogamy
054. Leaves and petiole are edible in?
 (A) Sweet potato (B) Colocasia
 (C) Elephant foot yam (D) Potato

055. In which form the spices are mostly (about 90%) traded in world trade?
 (A) Whole form (un-ground) (B) Powdered form
 (C) Spice essential oil (D) Spice mixture
056. 'Catface' is an important disorder of?
 (A) Tomato (B) Brinjal
 (C) Onion (D) Chilli
057. Pithiness in root crops occurs mainly due to?
 (A) Excessive root growth (B) Nutrient deficiency
 (C) Both (A) and (B) (D) None of these
058. The disorder 'black heart' in celery is due to the deficiency of?
 (A) Boron (B) Calcium
 (C) Zinc (D) Manganese
059. Kale is sensitive to?
 (A) High acidic conditions (B) High saline conditions
 (C) Both (A) and (B) (D) None of these
060. 'Akashin' a physiological disorder observed in radish is due to the deficiency of?
 (A) Nitrogen (B) Boron
 (C) Calcium (D) Potassium
061. What is the per cent contribution of Gujrat state in Indian vegetable production?
 (A) 3% (B) 6%
 (C) 9% (D) 11%
062. CFMV2 (Gira) is a variety of?
 (A) Finger millets (B) Ginger
 (C) Turmeric (D) Little Millets
063. *Basella alba* is a?
 (A) C₃ plant (B) C₄ plant
 (C) CAM plant (D) None
064. The dioecious cucurbit is?
 (A) Pumpkin (B) Bottle gourd
 (C) Pointed gourd (D) Snake gourd
065. What is the ideal annual rainfall range for turmeric cultivation?
 (A) 500-800mm (B) 700-1000mm
 (C) 1200-1500mm (D) 1500-2000mm
066. Leafless variety of pea is?
 (A) Arkel (B) Azad pea-I
 (C) L-116 (D) Aparna
067. Karyokinensis in cytogenetics refers to?
 (A) Cellular division (B) Nuclear division
 (C) Meiosis (D) Thickening of chromosomes
068. A cross between F1 hybrid and a pure parent is known as?
 (A) F2 cross (B) Test cross
 (C) Back cross (D) Homozygous cross

069. Brinjal is native to?
 (A) India (B) Africa
 (C) America (D) China
070. Gujrat Ornamental Okra hybrid 'Anand Shobha' has been recommended for?
 (A) Pot culture (B) Ornamental hedge
 (C) Both (A) and (B) (D) None of these
071. Which of the following tree should not be preferred for road side planting?
 (A) *Millingtonia hortensis* (B) *Eugenia jambolana*
 (C) *Albizia lebbeck* (D) All of these
072. The chemical found in large cardamom is?
 (A) Cineol (B) Linalool
 (C) Gingerol (D) Oleoresin
073. The vegetable, which is richest source of iodine to human diet is?
 (A) Okra (B) Radish
 (C) Zinger (D) Garlic
074. Cumin and Fennel producing major district of Gujrat is?
 (A) Palanpur (B) Junagarh
 (C) Ahmedabad (D) Kutch
075. Which of the followings is the richest source of folic acid?
 (A) Green leafy vegetable (B) Root vegetables
 (C) Cole crops (D) Rhizome crops
076. Toxin present in celery is?
 (A) Psoralens (B) Solasodine
 (C) Dioscorine (D) None
077. The type of inflorescence in coriander is?
 (A) Raceme (B) Corymb
 (C) Spadix (D) Umbel
078. Which region is recommended for getting superior seed quality of coriander?
 (A) Colder region (B) Warmer region
 (C) Low altitude (D) Both (A) and (C)
079. Sex chromosomes are also known as?
 (A) Autosomes (B) Allosomes
 (C) Lysosomes (D) Ribosomes
080. A cross of F₁ with homozygous recessive parent is known as?
 (A) Reciprocal cross (B) Test cross
 (C) Top cross (D) Back cross
081. Pollen along with pollen tube is known as?
 (A) Microspore (B) Sperm
 (C) Megaspore (D) Male gametophyte

082. If a diploid plant cell has 20 chromosomes, what will be the number of chromosomes in each daughter cell after mitosis?
 (A) 10 (B) 20
 (C) 40 (D) 80
083. What should be the true direction of free standing green house for getting maximum light in winter with latitude below 40°N ridge?
 (A) East-West (B) West-North
 (C) North-South (D) North-West
084. T-bar Trellis system of training is generally followed in?
 (A) Cherry (B) Almond
 (C) Avocado (D) Kiwifruit
085. Which of the following is ornamental creeper?
 (A) *Ficus repens* (B) *Phlox stolonifera*
 (C) *Thymus serpyllum* (D) All of these
086. Flower colour of orchid *Vanilla planifolia* is?
 (A) Pink (B) White
 (C) Yellow (D) Creamy white
087. What factors are associated with citrus granulation?
 (A) Climatic (B) Mineral nutrition
 (C) Enzyme and PGRs (D) All of above
088. Little leaf in apple is due to the deficiency of?
 (A) Boron (B) Copper
 (C) Molybdenum (D) Zinc
089. Shoot tip culture and mini crown grafting have emerged as promising technologies in?
 (A) Mango (B) Jackfruit
 (C) Guava (D) Citrus
090. Exanthema in citrus is due to deficiency of?
 (A) Zn (B) Cu
 (C) Mo (D) K
091. 'Browning' in apple is due to the enzyme?
 (A) Hydrolases (B) Polyglacturonase
 (C) Peroxidase (D) Polyphenol oxidase
092. 'Puffing' is a physiological disorder of?
 (A) Mandarin (B) Lime
 (C) Lemon (D) Sweet oranges
093. 'Limp Neck' is a physiological disorder of?
 (A) Carnation (B) Chrysanthemum
 (C) Rose (D) Gladiolus
094. Who is known as father of canning?
 (A) Dr. PB Lal (B) Dr. Randhawa
 (C) Dr. Frost (D) Nochulus Appert

095. In the older leaves of citrus crops, marginal chlorosis and inverted green 'V' around the mid-rib is associated with the deficiency of?
 (A) Mn (B) B
 (C) K (D) Mg
096. Which of the following are known as secondary elements?
 (A) C,H,O (B) N,P,K
 (C) Ca,Mg,S (D) B,Mn,Cu
097. California Poppy is a?
 (A) Short day plant (B) Long day plant
 (C) Day neutral plant (D) Quantitative Short day plant
098. *Acta Horticulturae* is a publication of?
 (A) ASHS, USA (B) ISHS, Belgium
 (C) JSHS, Japan (D) HIS, India
099. National Research Centre for orchids is situated at?
 (A) Pakyong (B) Darjeeling
 (C) Coimbatore (D) Kaziranga
100. 'Arka Savi, a variety of Rose has been released by?
 (A) IIHR Bangalore (B) IARI, New Delhi
 (C) Navsari Agriculture University (D) Anand agriculture University
201. Which of the following are the genus of flowering shrubs?
 (A) *Collinsia, Cuphea, Cheiranthus* (B) *Cananga, Carissa, Cassia, Cestrum*
 (C) *Gilia, Godetia, Limonium* (D) None of these
102. 'Casablanca' is a cultivar of?
 (A) Lotus (B) Gladiolus
 (C) Liliium (D) Tulip
103. 'Ratlam Selection' of chrysanthemum release during the year 2021 by Anand agricultural university has been recommended for the cultivation in?
 (A) Northern Gujrat (B) Southern Gujrat
 (C) Middle Gujrat (D) West Gujrat
104. Peach is generally trained as?
 (A) Central Leader (B) Modified Central Leader
 (C) Open Vase (D) Vertical Axis
105. Carnation and chrysanthemum are mostly propagated through?
 (A) Seed (B) Layering
 (C) Cutting (D) Budding
106. World famous 'Keukenhof' tulip garden is located at?
 (A) Switzerland (B) France
 (C) USA (D) Netherland
107. Baradari (Canopy) is a feature of?
 (A) Japanese garden (B) French garden
 (C) English garden (D) Mughal garden

108. 'Ikebana' is a?
 (A) Soil culture (B) Bonsai culture
 (C) Flower arrangement (D) None of these
109. Which of the following floriculture crops are known for their colourful brackets?
 (A) Bougainvillea and poinsettia (B) Marigold and rose
 (C) Aster and daisy (D) Lotus and carnation
110. Patchouli (*Pogostemon cablin*) is propagated through?
 (A) Seed (B) Division
 (C) Layering (D) Terminal shoot cuttings
111. Precursor of ethylene biosynthesis is?
 (A) Methionine (B) Glycine
 (C) Alanine (D) Tryptophan
112. Which of the following enzyme is related to fruit ripening?
 (A) Phenolase (B) Amylase
 (C) Lipolytic (D) Proteolytic
113. CAM cycle is found in which fruit crop?
 (A) Sapota (B) Strawberry
 (C) Pineapple (D) Papaya
114. The major alkaloid present in tomato is?
 (A) Solanine (B) Tomatine
 (C) Chaconine (D) Solasmin
115. 2000 ppm of NAA is equal to?
 (A) 0.2% (B) 0.02%
 (C) 2.0% (D) 20.0%
116. In order to improve the grade of banana bunches, 2,4 D may be sprayed after the last hand has opened. This also helps to remove the seeds in certain varieties e.g. Pooven and CO_I; what concentration of 2, 4-D is recommended?
 (A) 25 ppm (B) 125 ppm
 (C) 2.5 ppm (D) 1.25 ppm
117. Which growth regular partly replaces chilling requirement?
 (A) IAA (B) IBA
 (C) NAA (D) GA₃
118. GA₃ is used for induction of which type of flowers in cucumber?
 (A) Male (B) Female
 (C) Hermaphrodite (D) All of above
119. Growth regulator commercially used for the control of fruit drop in citrus is?
 (A) NAA (B) 2,4-D
 (C) IBA (D) ABA
120. Bloom delay (a practice followed to avoid spring frost) in temperate stone fruits can be achieved with fall (autumn) application of?
 (A) NAA (B) Boron
 (C) Ethephon (D) Urea

121. pH value of Jelly is?
 (A) 3.2 (B) 4.1
 (C) 4.5 (D) 5.2
122. Rancidity is a problem in storage of which type of spices?
 (A) Seed spices having high fixed oil (B) Seed spices having high volatile oil
 (C) Grinded seed species (D) Curry powder
123. The sparkling clear liquid free from all suspended solids is called as?
 (A) Concentrate (B) Squash
 (C) Cordial (D) Beverage
124. Chemical formula of Potassium metabisulfite is?
 (A) KSO_2 (B) K_2SO_2
 (C) $K_2S_2O_7$ (D) $K_2S_2O_5$
125. The pH specifications for bottled 'coconut water' usually ranges between?
 (A) 5.0- 5.4 (B) 5.5- 7.5
 (C) 7.5- 8.5 (D) 6.0- 7.0
126. Which of the following is not a characteristic of ideal jelly?
 (A) Transparent
 (B) Delicately soft texture
 (C) Stiff enough to hold its form when removed from the mold
 (D) Characteristic colour and flavour of the jelly fish
127. TSS of Jam should not be more than?
 (A) 50% (B) 60%
 (C) 55% (D) 70%
128. Which of the following is not a preservative in processed food product?
 (A) Sodium benzoate (B) Acetic acid
 (C) Methyl bromide (D) Potassium metabisulfite(KTS)
129. The first step in tea processing is?
 (A) Withering (B) Fermentation
 (C) Skiffing (D) Tipping
130. In banana, de-handling of false hands should be carried out?
 (A) Soon after bloom
 (B) Soon after the finger length is about half length of its full length
 (C) Before harvest
 (D) None of these
131. Horticultural crops are rich source of vitamins and minerals, so called as?
 (A) Staple food (B) Sustainable food
 (C) Protective food (D) Complete food
132. Which of the fruit is a good source of Vitamin C, Pectin, Calcium and Phosphorus ?
 (A) Mango (B) Aonla
 (C) Guava (D) Litchi

133. Which of the given crop is dioecious in nature?
 (A) Date palm (B) Loquat
 (C) Walnut (D) Strawberry
134. Botanically, the fruit of Tamarind is?
 (A) Pome (B) Berry
 (C) Lomentum (D) Sorosis
135. Which of the following groups includes non-climacteric fruits?
 (A) Olive, loquat, phalsa (B) Anola, strawberry, fig
 (C) Cherry, jamun, ber (D) All of above
136. The scientific name of now a day's cultivated apple is?
 (A) *Malus × pumila* (B) *Malus × sikkimensis*
 (C) *Malus × sylvestris* (D) *Malus × domestica*
137. Which is the most stable sex form in papaya?
 (A) M_1^{Rr} (B) M_1^{rr}
 (C) mm (D) M_2
138. C: N ratio of humus is?
 (A) 10 : 1 (B) 20 : 1
 (C) 30 : 1 (D) 40 : 1
139. Which of the following is a stem nodulating green manure?
 (A) *Pongamia sp.* (B) *Trifolium sp.*
 (C) *Dolichos sp.* (D) *Sesbania sp.*
140. Boric acid contains Boron about?
 (A) 15% (B) 17%
 (C) 19% (D) 21%
141. 'Bunchy Top' virus in banana entered into India from?
 (A) USA (B) Japan
 (C) Fiji Islands (D) Sri Lanka
142. 'Little leaf' disease in brinjal is caused by?
 (A) Mycoplasma (B) Bacteria
 (C) Virus (D) All of these
143. '*Erwinia amylovora*' bacterium causes the disease?
 (A) Soft nose in mango (B) Moko wilt in banana
 (C) Fire blight in apple & pear (D) Guava wilt
144. Shoot and fruit borers are serious problem in?
 (A) Cabbage (B) Cauliflower
 (C) Brinjal (D) Tomato
145. 'Buckeye' rot is a disease of?
 (A) Sweet potato (B) Tomato fruit
 (C) Pod of garden pea (D) Water chestnut

146. The symptoms given below related to the disease of a crop?
- Downward and inward curling of leaf margin, leaf distortion
 - Mosaic pattern of light and dark green areas on leaves
 - The presence of concentric rings on the fruit surface
- (A) Yellow vein Mosaic-Papaya (B) Ring Spot Virus- Papaya
 (C) Greening disease- Citrus (D) Tristeza Virus- Citrus
147. For reducing soil-borne pathogens like *Fusarium*, *Rhizoctonia*, *Pythium* and *Phytophthora* which of the following bio-control agent have been found promising?
- (A) *Trichoderma* (B) *Pseudomonas*
 (C) *Bacillus* (D) All of these
148. Poor fruit set in *Annona* is mostly due to?
- (A) Heterostyly (B) Sterility
 (C) Incompatibility (D) Dichogamy
149. Tendrometer is used to measure the maturity of which of the following crops?
- (A) Pea (B) Banana
 (C) Citrus (D) Liliium
150. Which type of crops are being adopted for vertical farming?
- (A) Potato (B) Leafy green vegetables
 (C) Turmeric (D) None of these
151. 'Pusa Lalima' mango is a cross between?
- (A) Dashehari × Sensation (B) Amrapali × Lal Sundri
 (C) Amrapali × Alphonso (D) Bombay × Kalapadi
152. Which of the following agency regulates the certification of organic products?
- (A) ICAR (B) CIB
 (C) APEDA (D) Indocert
153. Which group of pineapple is grown primarily for export?
- (A) Spanish group (B) Cayenne group
 (C) Queen group (D) Abacaxi group
154. In apple, stratification is done at temperature?
- (A) 10 - 11.5°C (B) 4 - 5°C
 (C) 12 - 15°C (D) -1 - 0°C
155. During juvenile phase, a plant can be induced to?
- (A) Flowering (B) Suckering
 (C) Burknott formation (D) Rooting
156. Fruit of pineapple is classified as?
- (A) Berry (B) Pome fruit
 (C) Capsule (D) Sorosis
157. Bangalore blue × Anabe-e-Shahi are parents of?
- (A) Arka Hans (B) Arkavati
 (C) Arka Kanchan (D) Arka Shayam

158. Le Conte pear is hybrid between?
 (A) *Pyrus serotina* × *Pyrus sinensis* (B) *Pyrus communis* × *Pyrus pashia*
 (C) *Pyrus communis* × *Pyrus pyrifolia* (D) *Pyrus pyrifolia* × *Pyrus sinensis*
159. 'Pusa Srijan' is a dwarfing rootstock for?
 (A) Mango (B) Citrus
 (C) Guava (D) Ber
160. Which fruit is rich source of Iron?
 (A) Apple (B) Date palm
 (C) Dry Karonda (D) Papaya
161. Modern cultivated strawberries are?
 (A) Diploid (B) Tetraploid
 (C) Hexaploid (D) Octaploid
162. Only citrus fruit that contain higher malic acid is?
 (A) Kagzi lime (B) Sweet lime
 (C) Sweet orange (D) Kinnow
163. Clonal rootstocks of apple are mostly multiplied by?
 (A) Cutting (B) Stooling
 (C) Grafting (D) None of above
164. Which of the following vitamins contain cobalt?
 (A) Vitamin A (B) Vitamin C
 (C) Vitamin D (D) Vitamin B₁₂
165. Which of the following is not included in management strategies for invasive South East Asian thrip (*Thrips parvispinus*) in chilly?
 (A) Regular monitoring of the infestation (B) Collection and destruction of the infested plants
 (C) Uprooting weeds (D) Use of predatory *Zygogramma bicolorata*
166. LEISA is related to?
 (A) Multiple cropping (B) Farming practices using local resources
 (C) Inorganic farming (D) None of these
167. The generic term for molecules having basic empirical formula of C_xH₂O and that are synthesized by the plants in a light dependent process is?
 (A) Aldehydes (B) Organic acids
 (C) Total soluble solids (D) Carbohydrates
168. Indicator plant for citrus trestiza is?
 (A) *Citrus aurantifolia* (B) *Citrus grandis*
 (C) *Citrus sinensis* (D) *Citrus reticulata*
169. Etiolation is caused due to?
 (A) High temperature (B) Low temperature
 (C) High light (D) Low light
170. Economic part of medicinal plant Sarpagandha is?
 (A) Seed (B) Dried roots
 (C) Leaves (D) Gum resin

171. In mango, induction of flowering is inhibited during 'On Year' due to higher levels of endogenous?
 (A) Auxin (B) Gibberellins
 (C) Zeatin riboside (D) ABA
172. Terpentine drug is obtained from?
 (A) Pine (B) Poppy
 (C) Celery (D) Aloe
173. The process of loss of N from soil in the form of NH₃ gas is known as?
 (A) Denitrification (B) Volatilization
 (C) Mineralization (D) Immobilization
174. Aroma in coffee is due to?
 (A) Drying (B) Roasting
 (C) Fermentation (D) CO₂ application
175. Fruits and vegetables that need to ripen after purchasing should be stored?
 (A) In a refrigerator (B) At room temperature
 (C) In a dark, cold place (D) At freezing temperature
176. Alphonso mango also known as Hapus received its GI tag in?
 (A) 2016 (B) 2017
 (C) 2018 (D) 2019
177. Tiny blastophagus wasps are important pollinators for?
 (A) Symrna fig (B) Sanpedro fig
 (C) Common fig (D) None of these
178. Which is the largest Kamalam (Dragon fruit) producing district of Gujrat?
 (A) Porbandar (B) Jamnagar
 (C) Junagarh (D) Kutch
179. Which one among the followings is correct regarding increase in production of horticultural crops during the past two decades (2001-2021) in India?
 (A) More than 125% (B) More than 150%
 (C) More than 200% (D) None of these
180. Example of variable cost is?
 (A) Machinery and Equipment (B) Seed and fertilizers
 (C) Insurance and premium (D) None of these
181. States (State Agriculture Marketing Boards) interested to integrate their APMCs/Mandis with e-NAM are required to carry out which of the following reforms in their APMC Act?
 (A) Single trading licence (Unified) to be valid across the state
 (B) Single point levy of market fee across the state
 (C) Provision for e-auction / e-trading as made of price discovery
 (D) All of these
182. Which of the following is a major pollinator in Durian?
 (A) Bees (B) Ants
 (C) Bats (D) Wasp

183. Among the following, which is a variety of Bael?
(A) Goma Kirti (B) Goma Prateek
(C) Goma Priyanka (D) Goma Yashi
184. Which of the fruit tree is heavily pruned of?
(A) Mango (B) Fig
(C) Litchi (D) Ber
185. Agricultural produce (Grading and Marketing) Act of 1937 refer to?
(A) Third-party guarantee that agricultural products meet quality standard
(B) Assurance of the quality of agricultural produce by the producer
(C) Certification of the quality of agricultural produce by APEDA
(D) None of these
186. Gujrat Agro Industries Corporation Ltd. Was set up in?
(A) 1967 (B) 1968
(C) 1969 (D) 1970
187. Indian Institute of Spices Research is situated at?
(A) Kozhikode (B) Mangalore
(C) Thiruvananthapuram (D) Coimbatore
188. India's share in world's vegetable production is around?
(A) 24% (B) 18%
(C) 14% (D) 11%
189. Majority of soil types of Navsari district of Gujrat fall in the category of?
(A) Heavy black soil with poor drainage
(B) Sandy loam soil with shallow depth
(C) Heavy black soil with water logging and problematic soil
(D) None of these
190. Seed Act was passed in India in the year?
(A) 1963 (B) 1966
(C) 1968 (D) 1969
191. Greenhouse gas responsible for global warming is?
(A) CO₂ (B) O₂
(C) SO₂ (D) CH₄
192. The practical benefit of waxing of the fruits before storage is?
(A) Protection against decay micro organisms
(B) Reduction rate of respiration and evaporation from fruit
(C) Both (A) and (B)
(D) Increase in fruit quality parameters
193. Multiflora Flower Auction Centre is situated in?
(A) North America (B) South Africa
(C) Italy (D) France
194. National Research Centre for Women in Agriculture is situated at?
(A) Bhuvneshwar (B) Delhi
(C) Bangalore (D) Hyderabad

195. Vector of citrus greening virus is?
 (A) *Papilo demolish* (B) *Diphorina citri*
 (C) *Dacus dorsali* (D) *Apis mellifera*
196. First KVK in India was established at?
 (A) Bangalore (B) Pondicherry
 (C) Hyderabad (D) Pantnagar
197. As per definition of IFOAM (2008) “Participatory Guarantee System (PGS) are locally focused quality assurance system. They certify producers based on active participation of stakeholders and are built on a foundation of trust, social networks and knowledge exchange; here the term PGS refers to?
 (A) A quality assurance initiative for organic agriculture stake holders.
 (B) A quality assurance initiative that facilitate the certification of organic production system.
 (C) A quality assurance initiative for natural farming agriculture stake holders.
 (D) A quality assurance initiative that facilitate the certification of natural farming production system by a third party.
198. Which of the following initiatives are supported by Pradhan Mantri Fasal Bima Yojna (PMFBY) for sustainable production in agriculture?
 (A) Providing financial support to the farmers suffering crop loss/damage arising out of unforeseen event.
 (B) Stabilizing the income of farmers to ensure their continuation in farming.
 (C) Ensuring flow of credit to the agriculture sector which will contribute to food security, crop diversification and enhancing growth and competitiveness of agriculture sector besides protecting farmers from production risks.
 (D) All of these
199. ICAR-CIPHET is situated at?
 (A) Delhi (B) Mysore
 (C) Nagpur (D) Ludhiana
200. Expanded form of WAI in plant is?
 (A) Water Access Index (B) Water Absorption Intensity
 (C) Water Absorption Index (D) None of these