IGKV CET



Question Paper

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1 Albedo (%) of rice crop is

(A) 23
(B) 18
(C) 12
(D) 40

2 Hagberg Falling Number (HFN) is used in wheat to know

(A) Lodging Resistance
(B) Shattering Resistance
(C) Bread Making Quality
(D) Fibre Content

3 What will happen to the soil pH if nitrate form of nitrogen is applied to soil?

(A) Acidic
(B) Alkaline
(C) Neutral
(D) No change

4 The reaction products of biological Nitrogen fixation in legumes are

(A) $NO_3 + H_2$
(B) $NH_4 + H_2$
(C) $NH_4 + O_2$
(D) $NO_3 + O_2$

5 Pahala blight of sugarcane is due to the deficiency of which element?

(A) Mg
(B) Cu
(C) Mo
(D) Mn

6 Who has given the concept of Nutrient intensity and Nutrient quantity

(A) Sorensen
(B) Francis
(C) Schoefield
(D) J Broom

7 Transgenic crop having largest area in the world is

(A) Maize
(B) Soybean
(C) Cotton
(D) Tomato

8 Which of the following tobacco is cured with smoke/fire

(A) Bidi tobacco
(B) Hookah tobacco
(C) Chewing tobacco
(D) Cigar tobacco

9 Akiochi disease in paddy is caused by

(A) Reduction of sulphate to sulphide
(B) Oxidatiojn of S to SO_4
(C) Transformation of H2S into SO2
(D) Transformation of SO_2 into SO_4

10 Cotton is the best trap crop for which parasitic weed?

(A) *Orobanche*
(B) *Loranthus*
(C) *Cuscuta*
(D) *Striga*

11 _____ accounts for more than 70% of the area and production of rapeseed mustard group in the country.

(A) *Brassica campestris*
(B) *Eruca sativa*
(C) *Brassica nigra*
(D) *Brassica juncea*

12 Aroma in Basmati rice is due to

(A) 1-acetyl 1-pyrrolene
(B) 1-acetyl 2-pyrrolene
(C) 2-acetyl 2-pyrrolene
(D) 2-acetyl 1-pyrrolene

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13 Which of the following crops causes maximum reduction in soil sodicity?

(A) Cowpea (B) Wheat
(C) Maize (D) Rice

14 The toxin in Bt- cotton is due to

(A) Cryl Ac (B) Cafir
(C) Bacillin (D) Tift-23A

15 *Convolvulus arvensis* is propagated through .....

(A) Roots (B) Seeds
(C) Tubers (D) Corms

16 A weed plant used as pollution indicator is:

(A) *Amaranthus viridis* (B) *Salvinia molesta*
(C) *Cleome viscosa* (D) *Eichhornia crassipes*

17 The herbicide Pyrazosulfuron ethyl controls weeds by acting as

(A) ACCase inhibitor (B) EPSP synthase inhibitor
(C) ALS inhibitor (D) PPO inhibitor

18 Metaxuron belongs to which group?

(A) Dinitroanilin (B) Substituted Urea
(C) Uracil (D) Phenoxy Acetic Acid

19 The scientific name of alligator weed is

(A) *Pluchea lanceolata* (B) *Bidens pilosa*
(C) *Chromolena odorata* (D) *Alternenthera phylloxroides*

20 Depth protection selectivity is classified under which of the following types

(A) Chemical selectivity (B) Physical selectivity
(C) Biochemical selectivity (D) Chronological selectivity

21 *Convolvulus arvensis* is a seed mimicking weed of which of the following crop

(A) Lentil (B) Wheat
(C) Castor (D) Niger

22 The duty of water for a base period of 120 days is equal to 1200 ha. The delta of the crop will be

(A) 8.64 cm (B) 64.8 cm
(C) 48.6 cm (D) 86.4 cm

23 The pF value at field capacity is

(A) 1.0 (B) 2.5
(C) 4.2 (D) 6.0

24 The ratio of water stored in the root zone of the plant to the water delivered to the field is called

(A) Conveyance efficiency (B) Storage efficiency
(C) Application efficiency (D) Distribution efficiency

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25 A red lateritic soil with bulk density of 1.6 g/cm^3 has gravimetric moisture content of 10%. The volumetric moisture content will be

(A) 12% (B) 16%
(C) 20% (D) 24%

26 Blue water means

(A) Polluted water (B) Marine water
(C) Rainwater stored in the soil (D) Surface water and ground water

27 Which of the following has the minimum crop coefficient over total crop duration

(A) Sugarcane (B) Tobacco
(C) Rice (D) Groundnut

28 In which drainage system laterals are provided only on one side of the mains?

(A) Double main system (B) Interception system
(C) Herringbone system (D) Gridiron system

29 If LGP for a zone 75- 140 days , the zone has potentiality for

(A) Double cropping (B) Short duration pulses
(C) Monocropping (D) Intercropping

30 What % of land area is occupied by farm pond in pond based IFS model in sub-humid track of India?

(A) 1% (B) 10%
(C) 20% (D) 30%

31 The yield of pigeon pea and rice in pigeon pea + rice intercropping are 1500 and 800 kg/ha respectively. The sole crop yields of respective crops are 2000 and 1600 kg/ha. The land equivalent ratio

(A) 1.10 (B) 1.25
(C) 1.50 (D) 1.75

32 Biogas is composed of

(A) CO_2 (B) Methane, CO_2
(C) Methane, CO_2, Hydrogen (D) Methane, CO_2, Hydrogen sulphide

33 If on a 20 acre farm, crops are raised on 15 acres in rabi, 15 acres in kharif and 20 acres in zaid in a year, what will be the cropping intensity?

(A) 300% (B) 400%
(C) 250% (D) 150%

34 Conscious drive towards sustainability is the characteristic of

(A) HELA (B) LEISA
(C) LELA (D) CA

35 If the income elasticity of demand is less than 1, the commodity is

(A) A necessity (B) A luxury
(C) An inferior good (D) None of them

36 The concept of consumer's surplus is given by

(A) Alfred Marshall (B) Cannon
(C) Adam Smith (D) J.R Hicks

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37 The law of Diminishing marginal utility deals with

(A) One commodity
(B) Two commodities
(C) More than two commodities
(D) Independent with the number of commodities

38 The concept of repayment plans will generally arise in case of _____ loans.

(A) ST loans
(B) Self liquidating loans
(C) SAO loans
(D) Term loans

39 Land improvement Loan Act came in

(A) 1879
(B) 1883
(C) 1885
(D) 1900

40 Which of the following do not correspond to 7P's of marketing mix?

(A) People
(B) Profits
(C) Process
(D) Product

41 Which of the following directly increases the GNP of a country?

(A) An increase in investment
(B) A surplus in budget
(C) A fall in national debt
(D) A rise in the interest rate

42 Which of the following is a fixed capital?

(A) Seeds
(B) Coal
(C) Machinery
(D) Food

43 Which of the following is not included during the calculation of Gross Domestic Product?

(A) Direct taxes
(B) Indirect taxes
(C) Old age pension
(D) Public investment

44 Rural credit and development division is the specialized branches of

(A) SBI
(B) Indian Overseas bank
(C) Dena bank
(D) Bank of Baroda

45 Large-sized Adivasi Multipurpose Societies came in

(A) 1965
(B) 1970
(C) 1971
(D) 1975

46 The headquarters of WTO is in

(A) Washington DC
(B) New York
(C) Geneva
(D) Rome

47 Which of the following is not a marketing function?

(A) Assembling
(B) Risk taking
(C) Insurance
(D) Spatial integration

48 The main function of FCI is

(A) Procurement
(B) Grading
(C) Storage
(D) Market information

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49 Returns to scale is _____ production function

(A) long run
(B) Short run
(C) Very short run
(D) Discrete

50 In case of perfect complements, the isoquant is

(A) L-shaped
(B) Inverted L-shaped
(C) Straight line
(D) Concave

51 Flag method is classified under:

(A) Written method
(B) Group method
(C) Mass method
(D) Spoken method

52 The book 'Guide on Alternative Extension Approaches' is written by:

(A) Axinn, G.H
(B) Swanson, B.E.
(C) Batos, M
(D) Rogers, A

53 The living memory of farmers was considered as control in:

(A) LLP
(B) KVK
(C) ORP
(D) AICPND

54 The DRDA was established in:

(A) 1919
(B) 1980
(C) 1967
(D) 1947

55 An association is characterized by:

(A) Folkways
(B) Customs
(C) Norms
(D) Usage

56 Folkways that deal with moral aspects are:

(A) Taboos
(B) Laws
(C) Mores
(D) Norms

57 The first extension education institute in India is established in:

(A) Nilokheri
(B) Anand
(C) Hyderabad
(D) Jorhat

58 Ashok Mehta Committee recommended the establishment of:

(A) Mandal Panchayat
(B) Panchayat Samithi
(C) Nagar Panchayat
(D) Gram panchayat

59 Seaman A Knapp conducted result demonstration in:

(A) Cotton
(B) Maize
(C) Barley
(D) Wheat

60 The number of steps in programme planning according to Kelsey and Hearne is:

(A) Four
(B) Seven
(C) Three
(D) Six

61 SMCR theory of Communication was given by

(A) Aristotle
(B) Wilson
(C) Shannon
(D) Berlo

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62 Which is not a component of extension programme?

(A) Situation (B) Objectives
(C) Goal (D) Problem

63 Which is not a step in Adoption process?

(A) Awareness (B) Interest
(C) Acceptance (D) Trial

64 Superiority of innovation over previous one is called as-

(A) Relative advantage (B) Compatibility
(C) Complexity (D) Trialibility

65 Which is a mass contact method?

(A) Seminar (B) Campaign
(C) Farm visit (D) Demonstration

66 Wrong interpretation of message is called as-

(A) Physical problem (B) Psychological problem
(C) Semantic problem (D) Technical problem

67 Which stem borer species of rice is pink in colour with black head?

(A) *Scirpophaga incertulas* (B) *Sesamia inferens*
(C) *Chilo suppresalis* (D) *Scirpophaga inotata*

68 Which of the following enzyme present in saliva of Gall midge maggot causing physiological change in rice plant tissue?

(A) Amylase (B) Cecidogen
(C) Lipase (D) Protease

69 Which pest is resistant when silica is applied to rice crop?

(A) *Heiroglypus banian* (B) *Orseolia oryzae*
(C) *Oligonychus oryzae* (D) *Scirpophaga incertulas*

70 The empty space between swirl plate and body of nozzle is called as

(A) Nozzle chamber (B) Orifice chamber
(C) Eddy chamber (D) Atomization chamber

71 Which one of the following is a pro-pesticide

(A) Triazophos (B) Cartap hydrochloride
(C) Imidacloprid (D) Thiodicarb

72 Phytosanitary certification is denoted by

(A) White tag (B) Red tag
(C) Yellow tag (D) Black tag

73 Which one of the following Lepidopterous insect is a pest in adult stage

(A) *Scirpophaga incertulas* (B) *Eudocima fullonia*
(C) *Papilio demoleus* (D) *Spodoptera litura*

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74 Pigeonpea sterility mosaic virus is transmitted by

(A) Whitefly
(B) Thrips
(C) Leaf hopper
(D) Eriophyid mite

75 Pubescent cotton variety is preferred for oviposition by

(A) *Empoasca fabae*
(B) *Helicoverpa zea*
(C) *Mayetiola destructor*
(D) *Rhopalosiphum padi*

76 The ideal moisture % of grains from storage point of view is

(A) 16
(B) 14
(C) 12
(D) 10

77 Diamond back moth belongs to which family?

(A) Noctuidae
(B) Yponomeutidae
(C) Crambidae
(D) Gelechiidae

78 Caterpillars bear 5 pairs of prolegs on following abdominal segments

(A) 3-4-6-8-10
(B) 3-5-7-9-10
(C) 3-5-6-8-10
(D) 3-4-5-6-10

79 Pygidium is very clearly visible in

(A) Lady bird beetle
(B) Pulse beetle
(C) Diving water beetle
(D) Water scavenger beetle

80 ETL of an insect pest is not affected by

(A) Stage of the crop
(B) Cost of control
(C) Price of the produce
(D) Financial status of farmer

81 In insects storage kidney refers to

(A) Fat bodies
(B) Urate cells
(C) Oenocytes
(D) Labial glands

82 Under extremely low moisture content which insect can infest stored grains

(A) Drug store beetle
(B) Rice weevil
(C) Pulse beetle
(D) Khapra beetle

83 A novel insecticide having both xylem and phloem mobility is

(A) Spirotetramat
(B) Spiromesifen
(C) Spinetoram
(D) Spirodiclofen

84 A diapausing stage of insect showing no visible sign of metabolic activity

(A) Hibernation
(B) Aestivation
(C) Cryptobiosis
(D) Anti-diapause

85 Pollination by beetles is known as

(A) Myophily
(B) Cantharophily
(C) Phalaenophily
(D) Myrmecophily

86 Spiral cut on the grapevine is the damage caused by

(A) Stem girdler
(B) Stem borer
(C) Flea beetle
(D) Mealy bugs

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87 *Pentalonia nigronervosa* is the scientific name of which pest

(A) Banana rhizome weevil
(B) Banana aphid
(C) Banana Skipper
(D) Pseudostem borer

88 Which of the followings cause Isle of Wight disease in honey bees

(A) *Tropilaelaps clareae*
(B) *Varroa jacobsoni*
(C) *Acarapis woodi*
(D) *Euvarroa sinhai*

89 Coupling phase and repulsion phase terms were first described by which of the following?

(A) Morgan
(B) Bateson and Punnett
(C) Sturtevant
(D) Bridges

90 Choose the correct ratio, which shows the masking gene interaction?

(A) 12:3:1
(B) 9:3:4
(C) 1:2:1
(D) 9:7

91 Which of the following is not a constituent of the histone octamer of nucleosomes?

(A) H_1
(B) H_2a
(C) H_3
(D) H_4

92 Which of the *E. coli* DNA polymerase is involved in DNA repair only?

(A) DNA polymerase I
(B) DNA polymerase II
(C) DNA polymerase III
(D) DNA polymerase IV

93 Okazaki fragments are used to elongate _____

(A) The leading strand toward the replication fork
(B) The lagging strand away from the replication fork
(C) The leading strand away from the replication fork
(D) The lagging strand toward the replication fork

94 During translation initiation, an aminoacyl-tRNA first attaches to which of the following sites of the ribosome?

(A) Site A
(B) Site P
(C) EF-Tu binding site
(D) EF-G binding site

95 The dominance hypothesis of heterosis was first proposed in 1908 by _____

(A) East
(B) Shull
(C) Davenport
(D) Hull

96 Reciprocal recurrent selection is used when a character is governed by

(A) Both additive and non-additive genes
(B) Additive genes only
(C) Non-additive genes only
(D) Cytoplasmic genes only

97 Wheat is naturally_____

(A) Autopolyploid
(B) Auto-allopolyploid
(C) Segmental allopolyploid
(D) Segmental autopolyploid

98 Which of the following does not concern with horizontal resistance?

(A) Hypersensitive response
(B) Polygenic control
(C) Reduced reproduction rate
(D) Race-nonspecificity

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99 Maintenance and multiplication of 'A' line used in crop like rice, is done by_____

(A) Crossing the plants of 'A'line with those of 'R' line
(B) Crossing the plants of 'A'line with those of 'B' line
(C) Crossing the plants of 'A'line with any popular variety
(D) Selfing the plants of 'A'line

100 Seeds Act in India was enacted in the year_____

(A) 1964
(B) 1966
(C) 1967
(D) 1956

101 Tetrazolium (TZ) test determines the level of activities of which enzyme?

(A) ATPase
(B) Carboxylase
(C) Isomerase
(D) Dehydrogenase

102 Golden yellow color tag is given to _____ class of seed.

(A) Breeder seed
(B) Nucleus seed
(C) Foundation seed
(D) Registered seed

103 The "Spiral Separator" separates good seed from undesirable seed/materials on the basis of_____

(A) Shape (roundness)
(B) Surface texture and stickiness
(C) Magnetic property
(D) Specific gravity

104 Maintenance and multiplication of Male sterile line used in crops like pear millet is done through

(A) Selfing the plants of 'A' line
(B) Crossing the plants of 'A' line with any popular variety
(C) Crossing the plants of 'A' line with those of 'B' line
(D) Crossing the plants of 'A' line with those of 'R' line

105 International Centre for Improvement of Maize and Wheat maintains germplasm collection of which of the following?

(A) Wheat and maize
(B) Wheat and *Triticale*
(C) Wheat, maize and *Triticale*
(D) Wheat, maize and barley

106 Which of the following is not correct about gene pool?

(A) The concept of gene pool was proposed by Harlan and De Wet in 1972
(B) In some sense, gene pool describes a concept similar to germplasm
(C) Transfers of genes from secondary gene pool to primary gene pool are possible, but difficult
(D) Species belonging to tertiary geen pool are frequently used in breeding programmes

107 Which approach utilizes photoperiod sensitive male sterility in rice for hybrid seed production

(A) One line
(B) Two line
(C) Three line
(D) Four line

108 In India, the indigenous germplasm collections of cultivated species carry which of the following prefix?

(A) EC
(B) IG
(C) IW
(D) IC

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109 Intellectual property falls into a category of property known as

(A) Moveable property
(B) Real property
(C) Tangible property
(D) Intangible property

110 Extant variety is

(A) A variety available in India which notified under section-5
(B) A variety about which there is common knowledge
(C) Farmers variety
(D) Variety which is in public domain

111 In which of the following UPOV Acts, farmers are not given the privilege to sell or exchange seeds with other farmers for propagation purposes?

(A) The UPOV Act, 1991
(B) The UPOV Act, 1978
(C) The UPOV Act, 1972
(D) The UPOV Act, 1995

112 Patenting genetic resources may lead to

(A) Destruction of bio-diversity
(B) Protection of bio-diversity
(C) Conservation of bio-diversity
(D) Storage of bio-diversity

113 A culture which contains one type of organism is called as

(A) Stab culture
(B) Axenic culture
(C) Attenuated culture
(D) None of the above

114 Which of the spores are motile in nature

(A) Aplanospore
(B) Conidia
(C) Zoospores
(D) Zygospore

115 Destructive insects and pests act was implemented in India in which year

(A) 1912
(B) 1914
(C) 1913
(D) 1918

116 Viroids are mainly transmitted by

(A) Insects
(B) Nematodes
(C) Mechanical
(D) Fungi

117 Physical evidence of presence of pathogen is called

(A) Symptom
(B) Infection
(C) Disease
(D) Sign

118 Which of the following is a bullet shaped virus

(A) TMV
(B) CaMV
(C) BSV
(D) TSWV

119 The chemical used for crystallization of TMV by Stanley was

(A) Sulphuric acid
(B) Ammonium sulphide
(C) Ammonium sulphate
(D) Ammonium Nitrate

120 Banana bunchy top virus is transmitted by

(A) *Pentalonia nigronervosa*
(B) *Bemisia tabaci*
(C) *Spongospora subterranea*
(D) *Xiphinema index*

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121 The breakdown of vertical resistance can be overcome by

(A) Purelines (B) Large lines
(C) Multilines (D) Dwarf lines

122 Sandal spike disease is caused by

(A) Phytoplasma (B) Fungus
(C) Virus (D) Nematodes

123 Incidence of which of the following disease has increased due to climate change

(A) Powdery mildew of pea (B) Grey mildew of cotton
(C) Sheath blight of rice (D) Downy mildew cucurbits

124 Which of the disease is influenced by pH of soil

(A) Wart of potato (B) Scab of potato
(C) Fusarium wilt of banana (D) Banded blight of rice

125 Which of the following disease has a Target board like appearance

(A) Late blight of potato (B) Wheat stem rust
(C) Early blight of potato (D) Linseed rust

126 Tundu disease of wheat is caused by

(A) *Anguina + Clavibacter* (B) *Meloidogynae + Pseudomonas*
(C) *Anguina + Heterodera* (D) *Pratylenchus + Clavibacter*

127 Which of the following is a Partial stem parasite

(A) Cuscuta (B) Loranthus
(C) Orobanche (D) Striga

128 Blossom end rot of fruit is due to deficiency of

(A) Ca (B) B
(C) Mg (D) Mo

129 Which of the following Double layer models is having maximum entropy?

(A) Helmholtz (B) Guy-Chapman
(C) Stern (D) None of these

130 The ratio of divalent cation to monovalent cation in clay minerals will increase in the sequence:

(A) Montmorillonite >Illite> Kaolinite (B) Illite> Montmorillonite > Kaolinite
(C) Kaolinite >Illite> Montmorillonite (D) Montmorillonite > Kaolinite >Illite

131 Which of the following anions is adsorbed to the colloidal surface forming inner sphere complexes?

(A) SO_4^{2-} (B) NO_3^-
(C) MoO_4^{2-} (D) Cl^-

132 Which of the following clay minerals develops higher charge but exhibits lower CEC?

(A) Montmorillonite (B) Vermiculite
(C) Illite (D) Kaolinite

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133 Element responsible for deflocculation of soil particle is

(A) Potassium (B) Calcium
(C) Magnesium (D) Sodium

134 The fundamental unit of soil classification is

(A) Pedon (B) Ploypedon
(C) Soil individual (D) Soil series

135 When soil pH changes from 7.00 to 6.00, the H^+ concentration increases by

(A) 100 times (B) 1000 times
(C) 8 times (D) 10 times

136 The twelve orders in Soil Taxonomy comprise of how many sub orders?

(A) 60 (B) 63
(C) 68 (D) 70

137 The extracting solution for determination of available P in alkaline soil is

(A) Bray's reagent (B) Di acid
(C) Olsen's reagent (D) Alcoholic KOH

138 The maximum proportion of soil nitrogen is in form of

(A) Protein (B) Nitrate
(C) Ammonium (D) Amide

139 Aroma of earthy smell in first shower of monsoon is due to

(A) Actinomycetes (B) Bacteria
(C) Fungi (D) Clay particle

140 The inorganic and organic labile P fraction of soil is collectively called

(A) Intensity factor (B) Quantity factor
(C) Capacity factor (D) None of these

141 Versenate titration method is used for the determination of

(A) Ca (B) Mg
(C) SOC (D) Both A and B

142 Illuviation takes place in.....

(A) A Horizon (B) B Horizon
(C) E Horizon (D) C Horizon

143 Hue denotes

(A) Dominant spectrum (B) Brightness
(C) Purity (D) Intensity

144 Bedrock is absent in which soil

(A) Inceptisols (B) Black Soils
(C) Red Soils (D) Alluvial Soils

145 Long day variety of garlic is.....

(A) Agrifound White (B) Agrifound Parvati
(C) Yamuna Safed (D) G-282

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146 Ramsey and Golsey are important varieties of which crop?

(A) Cinnamon
(B) Small cardamom
(C) Ginger
(D) Large cardamom

147 Dimple is a new root stock of.....

(A) Pear
(B) Plum
(C) Guava
(D) Ber

148 Acid content in jelly should be.....

(A) 0.5 – 1.0%
(B) 0.5 – 0.75%
(C) 0.1 – 0.5%
(D) 0.1 – 0.75%

149 In papaya, papain contains..... protein.

(A) 65.5%
(B) 72.2%
(C) 82.2%
(D) 52.2%

150 Fruit size in mango is governed by.....

(A) Additive gene
(B) Dominant gene
(C) Polygene
(D) Recessive gene

151 Pink berry is problem of

(A) Mango
(B) Grapes
(C) Banana
(D) Mangosteen

152 African Marigold is the major source of which component?

(A) Anthocyanin
(B) Carotenoids
(C) Lycopene
(D) Carotenoids & Lutein

153 Shade loving plant is.....

(A) China asters
(B) Pansy
(C) Cineraria
(D) Ceropsis

154 Drooping is a problem of which of the following?

(A) Gladiolus
(B) Tuberose
(C) Carnation
(D) Gerbera

155 Dianthus chinensis is a.....

(A) Diploid
(B) Haploid
(C) Triploid
(D) Tetraploid

156 Garden lanterns, garden pagoda, garden bridges, tea garden and flat garden are the unique feature of which type of garden?

(A) Mughal garden
(B) English garden
(C) Japanese garden
(D) Persian garden

157 Wonder tree is .....

(A) Neem
(B) Pipal
(C) Eucalyptus
(D) Mango

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158 NRC of Orchid

(A) Mizoram
(B) Assam
(C) J & K
(D) Gangtok

159 Beri Beri is caused due to deficiency of.....

(A) β-carotene
(B) thiamine
(C) riboflavin
(D) ascorbic acid

160 *Piper nigrum* is the botanical name of

(A) Black pepper
(B) Hot Pepper
(C) Sweet Pepper
(D) None of these

161 Pepper Research Station is located in Kerala at

(A) Panniyur
(B) Kochi
(C) Kottayam
(D) Trivandrum

162 Exotic variety of Ginger is

(A) Wynad
(B) Rio de Janeiro
(C) Manathodi
(D) Karkala

163 GA3 application produces parthenocarpy fruits in

(A) Apple
(B) Pear
(C) Fig
(D) All of above

164 Exogenous application of which of the following prevents pre-harvest fruit drop

(A) IBA
(B) NAA
(C) BA
(D) All of above

165 Bud rot in coconut is caused by

(A) Eriophyid Mite
(B) *Phytophthora palmivora*
(C) *Oryctes rhinoceros*
(D) Ganoderma wilt

166 Regular bearing mango variety

(A) Niranjan
(B) Amrapali
(C) Mulgoa
(D) Dashehari

167 Which of the following is not a restriction endonuclease?.

(A) EcoR1
(B) Hind III
(C) DNA Ligase
(D) Bam H1

168 Which of the following techniques is employed in nucleic acid blotting

(A) Chromatography
(B) Ultracentrifugation
(C) Spectrophotometry
(D) Gel electrophoresis

169 Photo-oxidation of water occurs in association of

(A) PS-II
(B) Plastocyanin
(C) Cytocrome B_6
(D) PS-I

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170 Base pairing of DNA does not prove that

(A) A/T is one
(B) C=G
(C) A+T is not equal to C+G
(D) Base sequence of RNA can be found out

171 How many of amino acid present in globin?.

(A) 544
(B) 554
(C) 564
(D) 574

172 In prokaryotic cells, ribosomes are

(A) 70S
(B) 80S
(C) 60S+40S
(D) 50S+40S

173 Which enzyme is used to join nicks in the DNA strand?

(A) Primase
(B) DNA polymerase
(C) DNA ligase
(D) Endonuclease

174 During DNA replication the synthesis of the lagging strand of DNA results in fragments known as

(A) Okazaki fragments
(B) Satellite segments
(C) Kornberg segment
(D) Double-helix segment

175 Which of these is not a function of auxin?

(A) Inducing callus formation
(B) Inducing dormancy
(C) Enhancing cell division
(D) Maintaining apical dominant

176 Which of the following chemicals are most widely used for protoplast fusion?

(A) Mannitol
(B) Polyethylene glycol
(C) Sorbitol
(D) Mannol

177 The variance of first 25 natural numbers is

(A) 52.17
(B) 53
(C) 52
(D) 53.17

178 The probability that a particular unit of population of size 500 will be included in the sample of size 10 is

(A) 0.01
(B) 0.02
(C) 0.002
(D) 0.2

179 The probability of having 53 Tuesdays in a leap year is

(A) 0
(B) 1/7
(C) 1
(D) 2/7

180 Intersection of less than and more than ogives gives

(A) Mode
(B) Mean
(C) Median
(D) All of the above

181 The binary equivalent of 32 is

(A) 101000
(B) 10000
(C) 111100
(D) 100000

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182 WAN stands for

(A) Wireless Area Network
(B) Wireless Access Network
(C) Wide Area Network
(D) None of these

183 A fruit discolouration problem referred to as 'pinking' is the result of :

(A) Microbial spoilage of the product
(B) Formation of metal anthocyanin complex
(C) Biochemical changes in the fruits
(D) Partially degraded protein

184 Nitrofurans are:

(A) Permitted colours
(B) Permitted antibiotics
(C) Unpermitted colours
(D) unpermitted antibiotics

185 During the xylem transport of water in trees sometimes a gas bubble has formed within the water column under tension, it will expand because gases cannot resist tensile forces. This phenomenon of bubble formation is known as

(A) Metabolism
(B) Anabolism
(C) Embolism
(D) Tenbolism

186 An amino acid residue of the D1 protein of the PSII reaction center functions as an electron carrier between the oxygen-evolving complex and P680

(A) Tyrosine
(B) Cysteine
(C) Methionine
(D) Histidine

187 In both C_4 and CAM plants, PEP carboxylase is inhibited by

(A) Glucose-6-phosphate
(B) Oxaloacetate
(C) Malate
(D) Pyruvate

188 The sequence of reactions leading to the formation of sugars from organic acids

(A) Gluconeogenesis
(B) Glycolysis
(C) Substrate level phosphorylation
(D) Cyclic phosphorylation

189 The process of formation of Germ layers is called

(A) Fertilization
(B) Gamete Formation
(C) Gastrulation
(D) Growth

190 The base pairs are held together primarily by

(A) Covalent bonds
(B) Hydrogen bonds
(C) Ionic bonds
(D) Gyrases

191 The bacterial cells are at their metabolic peak during

(A) Lag phase
(B) Stationary
(C) Log
(D) Decline

192 Temperature in pasteurization is

(A) 62.8 °C
(B) 35.7°C
(C) 68.2 °C
(D) 60.8°C

193 Bacteria isolated from a hot tub at 39 °C are probably which of the following?

(A) Thermophiles
(B) Psychrotrophs
(C) Mesophiles
(D) Hyperthermophiles

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194 Bacteriophages that induce bacterial cell lysis are called_____

(A) Viroids
(B) Virulent phages
(C) Lysogenic phages
(D) Temperate phages

195 A nitrogen fixing microbe associated with the fern Azolla in rice fields is_____

(A) Anabaena
(B) Spirulina
(C) Frankia
(D) *Rhizobium*

196 .....forms stem nodules

(A) Azorhizobium
(B) Bradyrhizobium
(C) *Rhizobium*
(D) cyanobacteria

197 Trade winds are the wind types that moves from

(A) Equator towards sub tropical high pressure belt
(B) Sub tropical high pressure belt Towards sub polar low
(C) Sub tropical high pressure belt towards Equator
(D) Sub polar low towards sub tropical high pressure belt

198 The time taken for reaching the radiation from the photosphere of sun is

(A) 0.8 sec
(B) 8 min
(C) 8 sec
(D) 8 hr

199 The state Chhatisgarh is divided into how many agroclimatic zone

(A) 2
(B) 3
(C) 5
(D) 7

200 Cropping system to follow in area is mostly decided by the

(A) Rainfall
(B) Slope
(C) LGP
(D) Land type

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