

MAGDALINE COACHING CENTRE (mc²)
AGRICULTURE SCIENCE PAPER II

(answer key is at the bottom)

1. **Pomology deals with the study of**
 - a. Vegetables
 - b. fruits
 - c. Flowers
 - d. Post-harvest technology

2. **National research centre for seed spice is located at**
 - a. Mysore
 - b. ajmer
 - c. cuttack
 - d.jaipur

3. **Pineapple is a _____ fruit.**
 - a. temperate
 - b. polar
 - c. subtropical
 - d. tropical

4. **Pre-cooling is done to remove_____.**
 - a. transpiration
 - b. Induce dormancy
 - c. chemicals residues
 - d. Field heat

5. **Apple belongs to the family_____.**
 - a. Rosaceae
 - b. Anacardiaceae
 - c. Sapindaceae
 - d. Pomeceae

6. **National Research centre for Litchi is at**
 - a. lucknow
 - b. shimla
 - c. muzzafarpur
 - d. patna

7. **Father of systematic pomology**
 - a. C.Linneaus
 - b. Dr. R.N. Singh
 - c. ErlingHaaland
 - d. De Candolle

8. **Indian Institute of Vegetable Research is situated at**
 - a. Varanasi
 - b. Lucknow
 - c. Izatnagar
 - d. Hyderabad

9. **Curcumin is an active ingredient of**
 - a. ashwagandha
 - b. radish
 - c. ginger
 - d. Turmeric

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- 10. Taiwan variety of Papaya is famous for its**
a. Seedlessness
b. sweetness
c. Blood Red colour
d. Fruit size
- 11. International Institute of Horticulture is located at**
a. India
b. China
c. Israel
d. Brazil
- 12. Bronzing in guava is due to deficiency of**
a. Mo
b. Zn
c. Boron
d. Mg
- 13. Richest source of Ascorbic acid is**
a. Rambutan
b. Ripe Mango
c. Rose Hips
d. Barbados Cherry
- 14. Type of pollination in banana is**
a. Orinthophilous
b. Entomophilous
c. Anemophilous
d. Hydrophilous
- 15. Dashehari x Neelum =**
a. Ratna
b. sindhu
c. Chausa
d. Amrapalli
- 16. Bitter pit is a physiological disorder of**
a. Apple
b. Banana
c. Mango
d. jackfruit
- 17. Berry elongation and thinning in grapes is done with**
a. 2,4-D
b. Ethephon
c. GA
d. N.A.A
- 18. Which of the following is not correctly matched**
a. Central Institute of Temperate Horticulture- Srinagar
b. Central institute of subtropical Horticulture- Lucknow
c. Central institute of Arid Horticulture- Bikaner
d. Indian Institute of Horticulture Research- Hyderabad

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19. Which fruit is known as “apple of Paradise”

- a. Coconut
- b. banana
- c. guava
- d. fig

20. Cauliflorous fruiting is common in

- a. cherry
- b. Jack fruit
- c. mulberry
- d. pomegranate

21. In which fruit ACID content is higher at ripening

- a. apple
- b. Mango
- c. Lemon
- d. Banana

22. International Network for Improvement of Banana And Plantain(INIBAP) is located at

- a. Hubei, China.
- b. Madrid, Spain.
- c. Tamilnadu, India.
- d. Montpellire, France.

23. The flowers of *Jacaranda mimosafolia* are ___ in colour.

- a. Red
- b. Blue
- c. Yellow
- d. Orange

24. Which of the following is known as pot marigold

- a. African marigold
- b. French Marigold
- c. Calendula
- d. Gerbera

25. Preventing entry of microorganisms in food is known as

- a. Purefraction
- b. Appertization
- c. Asepsis
- d. Atmo-filtration

26. In Marmalade the minimum percentage of TSS in final product is

- a. 45%
- b. 50%
- c. 55%
- d. 65%

27. Blossom end rot (BER) is associated with which crop

- a. Tomato
- b. Potato

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- c.Cauliflower
d.carrot
- 28. Suchitra is a thornless variety of**
a.Bougainvillea
b.Rose
c. *Euphorbia mili*
d.none
- 29. Dr.B.P.Pal is a variety of**
a.Lotus
b.Jasmine
c.Rose
d.Marigold
- 30. Snowball is a variety of**
a. Radish
b. Onion
c.Cauliflower
d. Turnip
- 31. India has monopoly in Muga silk which is mainly produced from**
a. Jammu & Kashmir
b. Jharkhand
c. West Bengal
d. Assam
- 32. Rock bee or Giant bee is**
a. *Apis dorsata*
b. *Apis florea*
c. *Apis mellifera*
d. *Apis cerana*
- 33. Scale wings are feature of**
a. orthoptera
b. Lepidoptera
c. coleoptera
d.hemiptera
- 34. Lady bird belongs to family**
a. coccinellidae
b. Scarabeidae
c. curculionidae
d. pyralidae
- 35. Labium is also known as the _____ of insects.**
a. Jaw
b. upper lip
c. lower lip
d. tongue

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- 36. Insects have pair of wings on the**
a. pro thorax
b. mesothorax
c. Metathorax
d. both b & c
- 37. Pollen collecting legs are modifications also known as**
a. Natatorial
b. corbiculate
c. saltatorial
d. Ambulatorial
- 38. The lowest pest population density that can cause economic damage is**
a. Economic Injury Level
b. Economic Threshold Level
c. Economic Damage Level
d. Economic Control Level
- 39. Complete metamorphosis is known as**
a. Ametabola
b. Holometabola
c. Hemimetabola
d. Hypermetabola
- 40. Which of the following is not matched correctly**
a. Orthoptera- Nymphs
b. Coleoptera- grubs
c. Diptera- Maggots
d. none
- 41. *Trichogramma chilonis* is a**
a. Eggparasitoid
b. larvalparasitoid
c. pupalparasitoid
d. predator
- 42. The main excretory organ of insects is**
a. nephron
b. malphigian tubules
c. Haemocoel
d. cerci
- 43. Which of the following is not a factor causing resurgence**
a. High fecundity
b. suppression of natural enemies
b. Hormologiosis
d. selective insecticide formulation
- 44. A secretion initiating a social response in insects are known as**
a. Pheromones
b. attractants
c. repellants
d. hormones

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45. Ghujhia weevil is a pest of

- a.rice
- b.maize
- c.wheat
- c.pulses

46. Proboscis of butterfly is composed of

- a.galea of maxillae
- b.mandibles
- c.Labium
- d.hypopharynx

47. NABARD came into existence on

- a.July 1982
- b.july 1986
- b.june 1986
- d.june 1982

48. *Zygogramma bicolorata* feeds on the leaves of

- a.Water hyacinth
- b.Parthenium
- c.lantana
- d.all of these

49. The storage organ of insect is

- a.ileum
- b.rectum
- c.pylorus
- d. crop

50. The bio-control agents which require only one host, which it kills for growing into adult is

- a. predators
- b. parasites
- c. Parasitoides
- d. Entomopathogens

51. *Aphalinus mali* effectively controls

- a.Sanjose scale
- b.applewooly aphid
- c.apple Scab
- d. Fire blight

52. ICRISAT was established in the year

- a. 1972
- b. 1929
- c. 1982
- d.1978

53. ICRISAT does not work on which of the following crops

- a. Chick Pea
- b. Pigeon Pea
- c. Groundnut

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d.Sweetpotato

54. Which of the following is known as international pest

- a. Army worm
- b. Termites
- c. Locust
- d. *Helicoverpa armigera*

55. Mechanism of Resistance given by R.H Painter does not include which of the following

- a. Preference
- b. Antixenosis
- c. Tolerance
- d. Antibiosis

56. Non-specific resistance is known as

- a. Vertical resistance
- b. Horizontal resistance
- c. Qualitative resistance
- d. Major gene resistance

57. Moulting hormone is

- a. Juvenile Hormone
- b. Ecdysone
- c. Eclosionin
- d. Juvenoids

58. Rhinoceros beetle is a serious pest of

- a. Papaya
- b. arecanut
- c. pomegranate
- d. coconut

59. Scientific name of Blister beetle is

- a. *Mylabris pustulata*
- b. *Plutella xylostella*
- c. *Leucinoides orbonalis*
- d. *Henosepilachna vignitocpunctata*

60. The Lac insect secretes a resinous byproduct which is marketed as

- a. Laccifer
- b. Lacca
- c. Shellac
- d. Laclac

61. Hopper burn is a symptom seen in

- a. Wheat
- b. Rice
- c. Maize
- d. All of these

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- 62. Passing of ropes over the rice crop helps in management of which pest**
a. Leaf folder
b. case worm
c. Hispa
d. Gundhi bug
- 63. Which of the following is not a fumigant**
a. Methyl bromide
b. Celphos Tablets
c. Chloropicrin
d. Margosa
- 64. Largest and the most diverse order of insects is**
a. Lepidoptera
b. Orthoptera
c. Coleoptera
d. Hymenoptera
- 65. Powdery mildews can be effectively controlled by**
a. sulphur fungicides
b. copper fungicides
c. chlorides
d. none of these
- 66. Who laid the foundations for experimental plant pathology by proving that that causal organism of late blight was *Phytophthora infestans***
a. T.J. Burill
b. P. Michelli
c. Needham
d. Anton de Bary
- 67. The first plant disease reported, which was caused by a bacterium is**
a. late blight of potato
b. ear cockle disease
c. Fire blight of apple/pear
d. downy mildew of grapes
- 68. Burgundy mixture contains _____ in place of Lime**
a. copper sulphate
b. Sodium carbonate
c. copper oxychloride
d. Calcium carbonate
- 69. "Fungi and Plant Disease" was written by**
a. K.C Mehta
b. Mundkur
c. E.J. Butler
d. Luthra
- 70. The pathogen of which of the following diseases can remain viable in dry leaves for 17 years**
a. citrus canker

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- b. black arm of cotton
- c. Kresek
- d. Tundu

71. Which of the following is not plant based formulations

- a. Margosa
- b. Plantolyte
- c. Plantavax
- d. Agricare

72. Bacterial leaf streak of rice is caused by

- a. *Xanthomonas oryzae* pv *oryzae*
- b. *Xanthomonas oryzae* pv *oryzicola*
- c. *Helminthosporium oryzae*
- d. *Pyricularia oryzae*

73. Which of the following is most commonly recommended for seed treatment and foliar spray against bacterial blight of rice in India

- a. Streptocycline
- b. Bordeaux mixture
- c. Sulfex
- d. Karathane

74. CO 7202 is a cultivar of

- a. Coffee
- b. sugarcane
- c. Tea
- d. Rubber

75. Ear cockle disease is caused by

- a. fungi
- b. bacterium
- c. nematode
- d. virus

76. Loose smut of wheat is

- a. Internally seed borne
- b. externally seed borne
- c. soilborne
- d. none of these

77. Little leaf of brinjal is caused by

- a. Mycoplasma
- b. fungi
- c. bacterium
- d. virus

78. Soft rot of potato is caused by

- a. *Ralstonia solanacearum*
- b. *Erwinia carotovora*
- c. *Streptomyces solanacearum*
- d. *Xanthomonas campestris*

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79. Powdery mildew belongs to

- a. Mastigomycotina
- b. Ascomycotina
- c. Basidiomycotina
- d. Deuteromycotina

80. Powdery mildew of grapes is caused by

- a. *Unicula necator*
- b. *Plasmopora viticola*
- c. *Blumeria*
- d. *Erisiphe cichoracearum*

81. Scab of apple is caused by

- a. *Streptomyces scabies*
- b. *Venturia inequalis*
- c. *Podosphaera leucotricha*
- d. *Pseudoperonospora cubensis*

82. Gene for gene concept was given by

- a. Flor
- b. E.F. Smith
- c. E.J Butler
- d. Mundkur

83. Rust of linseed and flax can be completely controlled by spray of

- a. Borax
- b. Blitox-50
- c. Agrosan GN
- d. Dithane M 45

84. Application of potash increases

- a. Resistance to water logging
- b. Frost resistance
- c. Pest resistance
- d. Disease resistance

85. Yellow mosaic virus of moong is spread by

- a. *Bemesiatabaci*
- b. *Aphis crassivora*
- c. *Nephotettix*
- d. *Nilaparvatalugens*

86. Which of the following disease include floral deformities?

- a. Green ear of bajra
- b. White rust of crucifers
- c. downy mildew of mustard
- d. both a & b

87. Fungi imperfecti includes

- a. Ascomycotina
- b. Basidiomycotina
- c. Oomycetes
- d. Deuteromycotina

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88. The major storage fungi that affects the food grain is

- a. Rhizobium
- b. Aspergillus
- c. Cercospora
- d. Mucor

89. Dinocap is sold in market as

- a. Bravo
- b. Dexon
- c. Sulfex
- d. Karathane

90. MLO and Spiroplasma are mostly inhibitors of

- a. Stomata
- b. Xylem
- c. phloem
- d. all

91. Bordeaux mixture was first time used for the control of

- a. Powdery mildew of grapes
- b. Downey mildew of grapes
- c. Late blight of potato
- d. Fire blight of apple

92. Which of the following is a red skin cultivar of potato?

- a. Khufri Jyoti
- b. Khufri Naveen
- c. Khufri Sherpa
- d. KhufriKanchan

93. Early blight of potato is

- a. Internally seed borne
- b. externally seed borne
- c. soil borne
- d. air borne

94. Panama wilt of banana can be prevented by

- a. spraying copper fungicides
- b. spraying zinc fungicides
- c. proper irrigation
- d. Application of lime in soil

95. Most widely used fungicide for rust fungi is

- a. Vitavax
- b. Plantavax
- c. Dithane M45
- d. Blitox 50

96. Black heart is a physiological disorder of

- a. Apple
- b. Tomato
- c. Potato

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d. Radish

97. Khaira disease is due to

- a. Toxicity of Zinc
- b. Deficiency of Zinc
- c. toxicity of Mo
- d. Deficiency of Mo

98. Which of the following is wrongly matched?

- a. red rot- *Glomerella tucumanensis*
- b. Downey mildew- *Plasmopora viticola*
- c. Yellow rust- *Puccinia striiformis*
- d. Citrus canker- *Agrobacterium tumefaciens*

99. Which of the following is an important component of Bordeaux mixture

- a. CaSO₄
- b. CaOCl₂
- c. CuCl₂
- d. CuSO₄

100. Which of the following disease is not caused by bacteria?

- a. citrus canker
- b. papaya root rot
- c. tundu
- d. cotton black arm

101. National Bureau of Plant Genetic Resources is located at

- a. Hyderabad
- b. Lucknow
- c. varanasi
- d. New Delhi

102. Cell Theory was proposed by

- a. Robert Brown
- b. A.V. Leeuwenhoek
- c. M. schleiden & T. Schwann
- d. A. Schneider & E Strausberger

103. Square test was developed by

- a. K. Pearson
- b. T.H Morgan
- c. C. Correns
- d. Rimpu

104. Law of segregation was given by

- a. W. Johannsen
- b. W. Sutton
- c. W. Bateson
- d. G.J Mendel

105. Which of the following is Reduction division

- a. Mitosis
- b. Meiosis

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- c. both a&b
- d. none

106. Sum total of all deleterious genes present in a species is called

- a. genetic advance
- b. Genetic erosion
- c. genetic load
- d. species diversity

107. The factors responsible for Cytoplasmic Male Sterility in plants is located at

- a. RNA
- b. Nuclear DNA
- c. Chloroplast DNA
- d. Mitochondrial DNA

108. Expression of one gene depending on the presence or absence of another gene is called

- a. Epistasis
- b. gene interaction
- c. non-allelic interaction
- d. all of these

109. Triticum aestivum is

- a. diploid
- b. triploid
- c. tetraploid
- d. Hexaploid

110. "Primary centre of origins" was proposed by

- a. Rimpu
- b. T. Fairchild
- c. Vavilov
- d. Charles Dawrin

111. Mass selection is always based on

- a. Genotype
- b. Phenotype
- c. genotype & phenotype
- d. Environment

112. Record of all parent offspring relationship is kept in which method

- a. mass selection
- b. Pureline
- c. pedigree
- d. bulk

113. Mixing the seeds of several phenotypically outstanding lines and encouraging open pollination is

- a. composite variety
- b. synthetic variety
- c. bulking
- d. recurrent selection

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114. Papaya is

- a. Monoecious
- b. dioecious
- c. both
- d. none

115. The flower in which males mature first compared to females is known as

- a. Protandry
- b. Protogyny
- c. Dicliny
- d. Dichogamy

116. Loss or decrease in vigour of offspring is called

- a. Heterosis
- b. Heterobeltosis
- c. Inbreeding depression
- d. none

117. X-ray is an example of

- a. Chemical mutagen
- b. Physical mutagen
- c. Ionizing mutagen
- d. none

118. The frequency of natural mutation is

- a. 10^{-2}
- b. 10^{-4}
- c. 10^{-6}
- d. 10^{-8}

119. Natural/Nature's Genetic Engineer is

- a. *Bacillus thuringiensis*
- b. *Agrobacterium*
- c. *Bacillus subtilis*
- d. *Penicillium chrysogenum*

120. H4, H6, H8 & H10 are interspecific/intervarietal hybrid of

- a. Maize
- b. Cotton
- c. Wheat
- d. Rice

121. In which type of pollination the flowers do not open at all

- a. Cleistogamy
- b. Chasmogamy
- c. Dichogamy
- d. Geitonogamy

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122. Rice is a

- a. self pollinated
- b. crosspollinated
- c. Open cross-pollinated
- d. all

123. Emasculation of flowers is necessary for hybridization in

- a. male sterile plant
- b. self incompatible plant
- c. cross pollinated plants
- d. self pollinated plants

124. CMS (Cytoplasmic male sterility) is best suited for hybrid seed production in ___ plants

- a. Self pollinated
- b. cross pollinated
- c. vegetatively propagated
- d. all

125. The first artificial hybrid was done by

- a. T. Fairchild
- b. GJ Mendel
- c. Bateson
- d. johanssen

126. Aflatoxin is produced by

- a. bacteria
- b. fungi
- c. virus
- d. Mycoplasma

127. IPGRI is located at

- a. Munich, Germany
- b. Rome, Italy
- c. Paris, France
- d. Barcelona, Spain

128. Landraces are

- a. local varieties
- b. advanced strains
- c. hybrid varieties
- d. improved varieties

129. Lysine is an amino acid usually present in

- a. Cereals
- b. Pulses
- c. Flowers
- d. fruits

130. Term heterosis was introduced by

- a. Hull
- b. Shull

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- c. East
- d. Rimpu

131. Which of the following is an effective gametocide for crops

- a. Sodium Methyl arsenate
- b. Zinc Methyl Arsenate
- c. NAA
- d. all of these

132. Exchange of chromosomes between non-sister chromatids of homologous chromosomes is known as

- a. Linkage
- b. Crossing over
- c. heterosis
- d. Heterobeltosis

133. Which of the following is male sterile line?

- a. A-Line
- b. B-Line
- c. R-Line
- d. none of these

134. Progeny of a single plant, obtained by asexual reproduction is

- a. Hybrid
- b. Cybrid
- c. Clone
- d. Inbred

135. Which of the following is not present in RNA

- a. G
- b. U
- c. C
- d. T

136. Which of the following is not correctly matched

- a. Monohybrid cross 3:1
- b. Dihybrid cross 9:3:3:1
- c. Trihybrid cross 27:9:9:3:3:1
- d. Duplicate dominant 15:1

137. A fertilized ovule is known as

- a. Ovary
- b. Seed
- c. Embryo
- d. Endosperm

138. The first private seed company Sutton and son's was established at Kolkata in

- a. 1912
- b. 1929
- c. 1952
- d. 1972

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139. Characters of seed

- a. True to its type
- b. Viable
- c. 12-14 percent moisture
- d. All of these

140. Golden yellow tag denotes

- a. Breeder seed
- b. foundation seed
- c. certified seed
- d. Registered seed

141. The seed offered for sale after testing germination percentage and physical purity is

- a. registered seed
- b. certified seed
- c. truthfully labelled seed
- d. all

142. The type of germination in cereals is

- a. Hypogeal
- b. Epigeal
- c. both
- d. none of these

143. Test weight is the weight of

- a. 100 seeds
- b. 1000 seeds

- c. both
- d. 10 seeds

144. Which of the following chemicals is not used for breaking dormancy in seeds

- a. KNO_3
- b. GA
- c. KMnO_4
- d. Thio-Urea

145. The genome contained in BREAD WHEAT is

- a. ABC
- b. ABCD
- c. ABD
- d. ACD

146. Which of the following methods can break seed dormancy

- a. chilling
- b. pre-soaking
- c. puncturing seed coat
- d. all of these

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147. Which of the following methods is used for testing seed viability

- a. tetrazolium chloride test
- b. electrical conductance method
- c. potassium permanganate method
- d. all of these

148. Which of the following method is not a method for testing germination

- a. petridish method
- b. rolled towel method
- c. folder paper towel method
- d. none of these

149. Isolation distance for foundation seed in rice and wheat is

- a. 3m
- b. 50m
- c. 100m
- d. 200m

150. Tomato is

- a. self-pollinated
- b. cross-pollinated
- c. open cross-pollinated
- d. all

151. For a bold seeded crop, which of the following is convenient

- a. test weight
- b. seed index
- c. test index
- d. seed weight

152. If you observe spindle shaped tubers in potato, which of the following is likely to cause such symptoms

- a. nutrient deficiency
- b. fungus
- c. viroid
- d. mycoplasma/Spiroplasma

153. Loose smut of barley is

- a. externally seed borne
- b. internally seed borne
- c. soil borne
- d. air & soil borne

154. National seed programme was started in the year

- a. 1975
- b. 1985
- c. 1995
- d. 2005

155. Setts is the planting material of

- a. potato
- b. sugarcane
- c. sweet potato

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d. tapioca

156. Which of the following is known as molecular scissors in genetic engineering?

- a. DNAses
- b. DNAREplicase
- c. Restriction endonucleases
- c. all of these

157. Which gene was transferred in maize to obtain lysine rich maize

- a. norin 10
- b. de geo woo gen
- c. opaque-2
- d. CSH-1

158. Virus free plantlets can be obtained from

- a. Embryo culture
- b. meristem culture
- c. anther culture
- d. callus culture

159. Culture of organs in-vitro is called

- a. callus culture
- b. body culture
- c. organ culture
- d. cell culture

160. The ability of an isolated cell or plant part to multiply and differentiate into an organism is known as

- a. Heterosis
- b. totipotency
- c. Heteroblastosis
- d. reculture

161. C3 pathway is also known as

- a. Calvin cycle
- b. Hatch-slack pathway
- c. both
- d. none

162. The 1st stable product in C4 plants is

- a. RUBP
- b. RUBISCO
- c. PGA
- d. OAA

163. Which of the following is an example of C3 plant

- a. Rice
- b. wheat
- c. pea
- d. all of these

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(answer key is at the bottom)

164. Which of the following plants have Crassulacean Acid Metabolism

- a. Pineapple
- b. Maize
- c. Sugarcane
- d. Sorghum

165. Photosynthetic rate is

- a. Higher in C₃ plants
- b. Higher in C₄ plants
- c. same for both C₃ & C₄
- d. unknown

166. Glycolysis take place in the

- a. cytoplasm
- b. chloroplast
- c. golgi apparatus
- d. all

167. ETC (electron transport chain) occurs at

- a. chloroplast
- b. golgi body
- c. mitochondria
- d. lysosomes

168. The energy currency of the cell is

- a. ADP
- b. NADH₂
- c. NADPH
- d. ATP

169. Light dependent oxygen uptake and carbon dioxide production is known as

- a. photoperiodism
- b. translocation
- c. transpiration
- d. photorespiration

170. Transpiration does not take place through

- a. Stomata
- b. Cuticles
- c. Lenticles
- d. none

171. In which phase, growth ceases

- a. lag phase
- b. log phase
- c. senescence phase
- d. Decreased growth rate

172. Which of the following is not a growth promoter

- a. auxin
- b. gibberellin
- c. ethylene
- d. cytokinin

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(answer key is at the bottom)

173. Which of the following induces dormancy

- a. gibberellins
- b. abscisic acid
- c. Cytokinins
- d. all of these

174. Which of the following is not matched correctly

- a. wheat: Long day plant
- b. rice: short day plant
- c. maize: day neutral plant
- d. sunflower: long day plant

175. Vernalization is associated with

- a. resistance
- b. heat treatment
- c. cold treatment
- d. chemical treatment

176. Which of the following is known as fruit sugar

- a. glucose
- b. lactose
- c. galactose
- d. fructose

177. Sucrose is a

- a. reducing sugar
- b. non-reducing sugar
- c. blend of both
- d. sometimes reducing sometimes non-reducing

178. Soybean protein is

- a. gluten
- b. oryzein
- c. zein
- d. glycinin

179. T in t-RNA stands for

- a. transport
- b. transfer
- c. telemorph
- d. total

180. Vitamin C is also known as

- a. retinol
- b. thiamine
- c. riboflavin
- d. ascorbic acid

181. Lysimeter is used for measuring

- a. translocation
- b. transpiration
- c. guttation
- d. photosynthesis

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(answer key is at the bottom)

182. Opening and closing of stomata is also affected by

- a. N
- b. P
- c. K
- d. Mg

183. Contribution to photosynthesis through Flag leaf is

- a. 10%
- b. 38%
- c. 52%
- d. 98.9%

184. Photosynthetic inhibition by O₂ is called

- a. Tyndall effect
- b. Warburg effect
- c. Lynx effect
- d. Dopplers effect

185. Mosquito repellent coils contains

- a. Paraquat
- b. BHC
- c. Allethrin
- d. Toxaphene

186. Important Green House Gas released from paddy fields is

- a. CO
- b. CO₂
- c. water vapour
- d. CH₄

187. Law of minimum was given by

- a. Blackmann
- b. clement
- c. Liebig
- d. J.B Bossingault

188. Which part of the roots absorb water and minerals

- a. root caps
- b. root hairs
- c. epidermis
- d. endodermis

189. Growing plants in soil-less environment is called

- a. aeroponics
- b. xeroponics
- c. Hydroponics
- d. all of these

190. Which of the following is volatile

- a. auxin
- b. ABA
- c. GA
- d. ethylene

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(answer key is at the bottom)

191. The first alkaloid to be isolated and crystallized was

- a. morphine
- b. nicotine
- c. cocaine
- d. caffeine

192. Phyllotaxis is associated with the arrangement

- a. roots
- b. leaves
- c. branches
- d. flowers

193. c-DNA stands for

- a. copy DNA
- b. cyclic DNA
- c. Complementary-DNA
- d. complete-DNA

194. Association of fungus with roots of plants is called

- a. Mycorrhiza
- b. Conjugation
- c. Symbiosis
- d. Mutualism

195. Autoclaving is done at 15lb/psi for

- a. 8 minutes
- b. 12 minutes
- c. 15 minutes
- d. 25 minutes

196. Phenyl Mercuric Acetate PMA is a

- a. transpiration promoter
- b. anti-transpirant
- c. anti-photosynthetic
- d. photosynthesis promoter

197. Gram staining technique was developed by

- a. H. Christian Gram
- b. S.A. Wakesman
- c. Phil Foden
- d. T.D. Lysenko

198. Which of the following is known as wonder crop

- a. potato
- b. soybean
- c. kiwi
- d. Dragon fruit

199. Water hyacinth is effectively controlled by

- a. *Zygogramma bicolorata*
- b. *Neochettina* spp.
- c. *crociosema*

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(answer key is at the bottom)

d. *sclerotia spp.*

200. Night soil is

- a. Soil where light doesn't reach
- b. forest soil
- c. Human excreta
- d. decomposed plants and animals

Q.no	Ans	Q.no	Ans	Q.no.	Ans	Q.no	Ans	Q.no	Ans
1	B	41	A	81	B	121	A	161	A
2	B	42	B	82	A	122	A	162	D
3	D	43	D	83	A	123	D	163	D
4	D	44	A	84	D	124	C	164	A
5	A	45	C	85	B	125	A	165	B
6	C	46	A	86	D	126	B	166	A
7	D	47	A	87	D	127	B	167	C
8	A	48	B	88	B	128	A	168	D
9	D	49	D	89	D	129	A	169	D
10	C	50	C	90	C	130	B	170	D
11	D	51	B	91	B	131	D	171	C
12	B	52	C	92	D	132	B	172	C
13	D	53	D	93	C	133	A	173	B
14	A	54	C	94	D	134	C	174	D
15	D	55	A	95	B	135	D	175	C
16	A	56	B	96	C	136	B	176	D
17	C	57	B	97	B	137	B	177	B
18	D	58	D	98	D	138	A	178	D
19	B	59	A	99	D	139	D	179	B
20	B	60	C	100	B	140	A	180	D
21	D	61	B	101	D	141	C	181	B
22	D	62	B	102	C	142	A	182	C
23	B	63	D	103	A	143	B	183	C
24	C	64	C	104	D	144	C	184	B
25	C	65	A	105	A	145	C	185	C
26	D	66	D	106	C	146	D	186	D
27	A	67	C	107	D	147	D	187	C
28	B	68	B	108	D	148	D	188	B
29	C	69	B	109	D	149	A	189	C
30	C	70	B	110	C	150	A	190	D
31	D	71	C	111	B	151	B	191	A
32	A	72	B	112	C	152	C	192	B
33	B	73	A	113	A	153	B	193	C
34	A	74	B	114	B	154	A	194	A
35	C	75	C	115	A	155	C	195	C
36	D	76	A	116	C	156	C	196	B
37	B	77	A	117	B	157	C	197	A
38	A	78	B	118	C	158	B	198	B
39	B	79	B	119	B	159	C	199	B
40	D	80	A	120	B	160	B	200	C