BOTANY (Final)

How many pairs of chromosomes are there in *Drosophila melanogaster*?

1.

	A. B. C. D.	2 3 5 4					
2.		The point mutation which occurs due to the replacement of a single nucleotide by another nucleotide is called					
	A.	Substitution mutation					
	B.	Insertion mutation					
	C.	Deletion mutation					
	D.	Deficiency mutation					
3.	Whic	ch one of the following form the trunk of banana?					
	A.	Rhizome					
	B.	Pseudostem					
	C.	Bundle of leaves					
	D.	Inflorescence					
4.	Whic	ch one of the following subcell is involved in the protein biosynthesis?					
	A.	Golgi body					
	В.	Ribosome					
	C.	Vacuole					
	D.	Cell wall					
5.	Which one of the following elements finds use as a fungicide?						
	A.	Boron					
	B.	Copper					
	C.	Zinc					
	D.	Magnesium					
6.	Chloroplasts are found in						
	A.	Upper epidermis					
	B.	Lower epidermis					
	C.	Guard Cell					
	D.	Cuticle					



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- A. Malvaceae
- B. Magnoliaceae
- C. Solanaceae
- D. Sterculiaceae

8. Iodine has the capacity to turn this biomolecule into blue

- A. Protein
- B. Fat
- C. Starch
- D. Vitamin A

9. The method of reproduction in pteriodophytes is through

- A. Seeds
- B. Fruits
- C. Spores
- D. Fossils

10. The germination of pinus seed is

- A. Hypogeal
- B. Epigeal
- C. Vivipary
- D. Ovipary

11. An important ingredient to prepare jam that is obtained from within the fruit is

- A. Lectin
- B. Pectin
- C. Glutelin
- D. Albumin

12. Jaundice is cured by

- A. Wedellia calendulacea
- B. Phyllanthus niruri
- C. Helianthus annus
- D. Lactra saliva



- 13. Which of the following seeds are used as weight by goldsmiths?
 - A. Butea frondosa
 - B. Clitoria ternata
 - C. Abutlion indicum
 - D. Abrus precatorius
- 14. Phyllode is a modified leaf form that helps to
 - A. Reduce transpiration
 - B. Increase water uptake
 - C. Reduce photosynthesis
 - D. Increase disease resistance
- 15. The interior of the leaf between upper and lower epidermis is called
 - A. Mesophyll
 - B. Vascular bundle
 - C. Xylem
 - D. Phloem
- 16. Venation indicates the arrangement of
 - A. Anthers in a flower
 - B. Veins in a leaf
 - C. Fruits in a bunch
 - D. Grains in a head
- 17. Development of fruits without fertilization is called as
 - A. Apocarpy
 - B. Syncorpy
 - C. Polycorpy
 - D. Parthenocarpy
- 18. Stamens attached to the petals are termed as
 - A. Episepalous
 - B. Epipetalous
 - C. Epitepalous
 - D. Polypetalous



- 19. Seedless fruits are seen in
 - A. Banana
 - B. Grapes
 - C. Pine apple
 - D. All of the above
- 20. The maximum biodiversity in India occurs at
 - A. Western Himalayas
 - B. North East Himalayas
 - C. Western Ghats
 - D. Eastern Ghats
- 21. Cambium is present in
 - A. Dicot stem
 - B. Monocot stem
 - C. Dicot root
 - D. Dicot leaf
- 22. Gregore Johannes Mendel published the results of his experiment in the journal
 - A. Genera Plantarum
 - B. Hortus Uplandicus
 - C. Flora Lapponica
 - D. Transactions of Natural History Society
- 23. In hybridization technique, emasculation means the removal of
 - A. Stamen
 - B. Pistil
 - C. Corolla
 - D. Calyx
- 24. In a cross between two individuals pure for contrasting characters of a pair, the character which is not represented in F₁ generation is the
 - A. Dominant character
 - B. Recessive character
 - C. Incomplete dominant character
 - D. Intermediate character



- 25. The chemical name for milk sugar is
 - A. D-Galactose
 - B. α-D Galactosyl pyranose
 - C. D- Glucose
 - D. None of the above
- 26. Cells of higher plants are grown artificially in laboratory conditions using the technique of
 - A. Molecular cloning
 - B. Gene cloning
 - C. Tissue culture
 - D. Hybridization
- 27. An example of fusogen is
 - A. Methanol
 - B. Ethyl alcohol
 - C. Polyethylene alcohol
 - D. Polyethylene glycol (PEG)
- 28. Transposon was discovered by
 - A. Darwin
 - B. Barbara McClintok
 - C. Monod
 - D. Watson
- 29. A popular technique to amplify thousands of copies of a DNA sequence is
 - A. RFLP
 - B. PCR
 - C. Translation
 - D. Duplication
- 30. The type of light microscopy used to visualize living cells is
 - A. Fluorescence microscopy
 - B. Electron microscopy
 - C. Phase-contrast microscopy
 - D. Confocal scanning microscopy



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- A. Polysomic
- B. Polycistronic
- C. Polygenic
- D. None of the above

32. Which organelle has only single membrane?

- A. Mitochondria
- B. Peroxisomes
- C. Chloroplasts
- D. Nucleus

33. The plant with the smallest genome is

- A. Maize
- B. Arabidopsis thaliana
- C. Mungbean
- D. Rice

34. DNA synthesis occurs during

- A. G1 phase
- B. G2 phase
- C. S phase
- D. M phase

35. Regulated processes leading to cell death via a series of well-defined morphological changes is termed as

- A. Apolysis
- B. Apoptosis
- C. Apomixis
- D. Endodupliction

36. Trypsin inhibitor is present in

- A. Wheat
- B. Paddy
- C. Maize
- D. Soybean



37. DNA replication is

- A. Semi-discontinuous
- B. Semi-conservative
- C. Fully conservative
- D. DNA degradation

38. Meiosis is

- A. Reduction division
- B. Equal division
- C. Unreduction division
- D. Nuclear fission

39. The character that appears in F1 is called

- A. Recessive
- B. Dominant
- C. Incomplete dominance
- D. None of the above

40. Enzymatic isolation of protoplasts was first demonstrated by

- A. Zimmermann
- B. Vasil
- C. Cocking
- D. Murashige

41. A synthetic plant hormone is

- A. IAA
- B. IBA
- C. 2, 4-D
- D. ABA

42. Lycopene is the coloring pigment of

- A. Carrot
- B. Tomato
- C. Papaya
- D. Lime



43. Agar-Agar is obtained from

- A. Ficus
- B. Polysiphonia
- C. Gelidium
- D. Laminaria

44. Which of the algae is responsible for red color of red sea?

- A. Chlamydomonas braui
- B. Trichodesmium erythrium
- C. *Ulothrix zonata*
- D. Gelidium sps

45. Increase in girth in woody plants is due to the activity of

- A. Cork cambium
- B. Procambium
- C. Fascicular cambium
- D. All of the above

46. Casparian strips are present in

- A. Pericycle
- B. Endodermis
- C. Hypodermis
- D. Collenchyma

47. Grafting is not possible in monocotyledons because they

- A. Have parallel bundles
- B. Lack cambium
- C. Are herbaceous
- D. Have scattered vascular bundles

48. rRNA synthesis takes place in

- A. Nucleus
- B. Mitochondrion
- C. Nucleolus
- D. Cytosol



- 49. Name the biological source of Iodine
 - A. Sea water
 - B. Oedogonium
 - C. Laminaria
 - D. None of the above
- 50. H_2O_2 clearance inside the cell is carried out by
 - A. Glyoxysome with enzyme isocitrate lyase
 - B. Peroxisome with enzyme lipase
 - C. Glyoxysome with enzyme catalase
 - D. Peroxisome with enzyme amino oxidase
- 51. All are particulate pollutants except
 - A. dust
 - B. ozone
 - C. Soot
 - D. smoke
- 52. The true statement about 'green house effect' is that it is
 - A. Caused by combinatin of many gases
 - B. Caused by CO₂
 - C. Caused only by CO₂, CFC, CH₄ and NO₂ gases
 - D. None of the above
- 53. Carbon monoxide is poisonous because it
 - A. Reacts with O_2
 - B. Inhibits glycolysis
 - C. Makes nervous system inactive
 - D. Reacts with haemoglobin
- 54. Family Labiatae can be easily identified with the help of
 - A. Spurred corolla and quadrangular stem
 - B. Verticillaster inflorescence and many stamens
 - C. Gynobasic style and four ovules
 - D. Two stigmas and regular corolla



- 55. What is the edible part in Jack fruit?
 - A. Thalamus
 - B. Ovary (ripened)
 - C. Perianth and seeds
 - D. Fleshy aril
- 56. Phyllocade is seen in
 - A. Rice
 - B. Caesalpinia
 - C. Casuarina
 - D. Cotton
- 57. The process of photorespiration in plants leads to
 - A. Release of enhanced levels of O_2
 - B. Removal of waste metabolites
 - C. Lowering of the efficiency of photosynthetic carbon fixation
 - D. Enhanced plant yield
- 58. Under water stress, the leaves of plants are found to contain higher concentration of
 - A. Gibberellic acid
 - B. Cytokinins
 - C. Auxins
 - D. Abscisic acid
- 59. ³²P is one of the radioactive isotopes commonly used in biological studies. Its half-life is
 - A. 14.3 days
 - B. 87.5 days
 - C. 8.07 days
 - D. 3.2 days
- Which one of the following bacteria has found extensive use in genetic engineering work in plants?
 - A. Agrobacterium tumefaciens
 - B. Clostridium septicum
 - C. Xanthomonas citri
 - D. Bacillus coagulens



- Which one of the following techniques is employed to detect the proteins of a particular specificity?
 - A. Western blotting
 - B. Southern blotting
 - C. Northern blotting
 - D. Slot blotting
- 62. The protein in the pollen wall that causes allergy is contributed by
 - A. Exine
 - B. Pollen cytoplasm
 - C. Tapetum
 - D. Intine
- 63. Fluorescein diacetate is used to test pollen viability based on the activity of which one of the following enzymes?
 - A. Catalase
 - B. Amylase
 - C. Esterase
 - D. Callase
- 64. Restriction enzymes are used in genetic engineering because
 - A. They can join different DNA fragments
 - B. They can cleave DNA at a specific target site
 - C. They are nucleases that cut DNA at variable sites
 - D. They are proteolytic enzymes which can degrade harmful enzymes
- 65. The hydrostatic pressure developed within a plant cell through endo-osmosis and exerted on its wall is termed as
 - A. Wall pressure
 - B. Osmotic pressure
 - C. Suction pressure
 - D. Turgor pressure
- 66. In Nature, the orchid seeds germinate only in association with
 - A. Myxomycetes
 - B. Mycorrhiza
 - C. Blue green algae
 - D. Actinomycetes



67.	Which is major factor contributing to loss of biodiversity?					
	A. B. C. D.	Habitat loss and fragmentation Introduced species Over exploitation of plants and animals Industrial farming and forestry				
68.	The	discipline dealing with the inheritance of characters is called				
	A. B. C. D.	Genetics				
69.	Puccinia graminis causes in cereals one of the following diseases					
		Blight Gall Rust Wilt				
70.	Which of the following can only be viewed by electron microscopy?					
	A. B. C. D.	Nuclei				
71.	Which of the following units is used to measure energy?					
	A. B. C. D.	Joule Mole Watt Meter				
72.	Which of the following is not a base used in DNA replication?					
	A. B. C. D.	Cytosine Uracil Thymine Guanine				



- 73. Which of the following molecules would not readily cross an intact cell membrane by simple diffusion?
 - A. Water
 - B. Fatty acids
 - C. Ethanol
 - D. Glucose
- 74. The most widely used method for determining the purity of a protein is
 - A. High pressure liquid chromatography (HPLC)
 - B. Ion exchange chromatography
 - C. Isoelectric focusing
 - D. Polyacrylamide gel electrophoresis (PAGE)
- 75. The normal cell cycle usually proceeds in the following sequence
 - A. S phase mitosis G1 phase G2 phase
 - B. S Phase G1 phase G2 phase mitosis
 - C. G1 Phase G2 phase S phase mitosis
 - D. Mitosis G1 phase S phase G2 phase
- 76. Biochemical Oxygen Demand measures
 - A. Pollution level
 - B. Industrial pollution
 - C. Dissolved oxygen needed by microbes to decompose organic waste
 - D. Degree of contamination
- 77. Phosphorous and Nitrogen ions generally get depleted in soil because they usually occur as
 - A. Neutral ions
 - B. Negatively charged ions
 - C. Positively charged ions
 - D. Both positively and negatively charged but disproportionate mixture
- 78. What causes a green plant to bend towards light as it grows?
 - A. Auxin accumulates on shaded side stimulating greater cell elongation
 - B. Because green plants are phototrophic
 - C. Light stimulates plant cells on the lighted side to grow faster
 - D. Because green plants need light to carry on photosynthesis



- 79. The transmembrane region of a protein is likely to have
 - A. A stretch of hydrophilic amino acids
 - B. Alternating hydrophilic and hydrophobic amino acids
 - C. A stretch of hydrophobic amino acids
 - D. A disulphide loop
- 80. The 'eyes' of the potato tuber are
 - A. Root buds
 - B. Axillary buds
 - C. Flower buds
 - D. Shoot buds
- 81. Water moulds belongs to the Division
 - A. Ascomycota
 - B. Basidiomycota
 - C. Chytridiomycota
 - D. Oomycota
- 82. Litmus which is used for the detection of acids or alkalies is obtained from
 - A. Algae
 - B. Lichens
 - C. Fungi
 - D. Bacteria
- 83. Which one of the following is called as the 'brewers yeast'?
 - A. Saccharomyces cerevisiae
 - B. Saccharomyces ludwigi
 - C. Saccharomyces boulardii
 - D. Saccharomyces pastorianus
- 84. Transcription is the transfer of genetic information from
 - A. RNA to cDNA
 - B. t-RNA to mRNA
 - C. DNA to mRNA
 - D. mRNA to protein



- 85. Transpiration is least in
 - A. High wind velocity
 - B. Good soil moisture
 - C. Dry environment
 - D. High atmospheric humidity
- 86. Indole 3-acetic acid is chemically similar to the amino acid
 - A. Methionine
 - B. Tryptophan
 - C. Proline
 - D. Phenylalanine
- 87. The root in mangrove tree is
 - A. Tuberous
 - B. Buttress
 - C. Respiratory
 - D. Fibrous
- 88. The process of pinocytosis means
 - A. Cells excreting fluids
 - B. Cells engulfing solids
 - C. Cells engulfing bacteria
 - D. Cells engulfing fluids
- 89. If the endosperm cells of an angiosperm seed are pentaploid, then such a seed may have been formed by which of the following parents?
 - A. Pentaploid female and pentaploid male
 - B. Triploid female and diploid male
 - C. Diploid male and tetraploid female
 - D. Triploid male and diploid female
- 90. Fungi in the division Deuteromycota are characterized by the fact that
 - A. A method of sexual reproduction has not been identified
 - B. They only reproduce sexually
 - C. They form sexual spores called deuterospores
 - D. They are incapable of sexual reproduction



- 91. Which one of the following statements about ATP is correct?
 - A. ATP is considered a low energy phosphate compound
 - B. Hydrolysis of ATP is a strongly exergonic reaction
 - C. ATP cannot be taken up through cell membrane
 - D. ATP is present at high concentration in the cell
- 92. One thousand micrometers is equivalent to
 - A. 0.1 millimeter
 - B. 10 millimeters
 - C. 1 millimeter
 - D. 100 millimeters
- 93. If an endosperm cell of an angiosperm contains 24 chromosomes, the number of chromosomes in each cell of the root will be
 - A. 8
 - B. 16
 - C. 4
 - D 24
- 94. Pericycle of roots gives
 - A. Lateral roots
 - B. Mechanical support
 - C. Vascular bundles
 - D. Adventitious roots
- 95. Which of the following is a parasitic alga?
 - A. Sargassum
 - B. Cladophora
 - C. *Oedogonium*
 - D. Celphaleuros
- 96. The ploidy of endosperm in Gymnosperms is
 - A. Haploid
 - B. Diploid
 - C. Triploid
 - D. Polyploid



97.	Lichens serve as an indicator of pollution by

- A. NO_3
- B. CO_2
- C. CO
- D. SO_2

98. Carbon dioxide joins the photosynthetic pathway in

- A. PS I
- B. PS II
- C. Dark reaction
- D. Light reaction

99. In grafting scion forms

- A. Root system
- B. Shoot system
- C. Hybrid plant
- D. Chimeric plant

100. 'The energy available to do useful work' is a description of which of the following terms

- A. Free energy
- B. Enthalpy
- C. Kinetic energy
- D. Entropy

101. Littoral zone is located along the

- A. Deserts
- B. Mountain ranges
- C. Sea
- D. Rivers

102. Which of the following is not a member of the division *Ascomycota*?

- A. Claviceps
- B. Aspergillus
- C. Penicillium
- D. Rhizopus



- 103. Azolla is used as biofertilizer as it has
 - A. Higher humus and nitrates
 - B. Cyanobacteria
 - C. Rhizobium
 - D. Mycorrhiza
- 104. Which of the following pair of diseases is caused by virus?
 - A. Typhoid and Tetanus
 - B. Cholera and Tuberculosis
 - C. Rabies and Measles
 - D. AIDS and Syphilis
- 105. A common structural feature of vessel elements and sieve tube elements is
 - A. Thick secondary walls
 - B. Pores on lateral walls
 - C. Enucleate condition
 - D. Presence of 'P' protein
- 106. Which of the following statements about the functions of the cell membrane is not correct?
 - A. Cell membranes are selectively permeable to most molecules
 - B. Cell membranes are passively not permeable to inorganic ions
 - C. Cell membrane always maintains the shape of the cell
 - D. Cell membrane retain the contents of the cell
- 107. Identify non-membranous organelle from the following
 - A. Ribosome
 - B. Endoplasmic reticulum
 - C. Nucleus
 - D. Chloroplast
- 108. The fully formed male gametophyte of angiosperms contains
 - A. One tube nucleus, one vegetative cell and one generative cell
 - B. One generative cell, one tube cell and one stalk cell
 - C. One generative cell, one tube cell and one body cell
 - D. One vegetative nucleus, and two male gametes



- 109. Why is vivipary an undesirable character for annual crop plants?
 - A. It reduces the vigour of the plant
 - B. The seeds cannot be stored under normal conditions for the next season
 - C. It adversely affects the fertility of the plant
 - D. The seeds exhibit long dormancy
- 110. During respiration yeast converts glucose into
 - A. Ethanol and oxygen
 - B. Lactic acid and CO₂
 - C. Ethanol and CO₂
 - D. Ethanol and water
- 111. A transgenic crop which may help in solving the problem of night blindness in developing countries is
 - A. Golden rice
 - B. Bt soy bean
 - C. 'Flavr Savr' tomato
 - D. Starlink maize
- 112. The flax fibres are obtained from
 - A. Cannabis sativa
 - B. Cocos nucifera
 - C. Crotolaria juncea
 - D. Linum usitatissimum
- 113. Correct order of geological era is
 - A. Archaeozoic→Cenozoic→ Paleozoic
 - B. Cenozoic→Paleozoic→ Archaeozoic
 - C. Paleozoic→ Mesozoic→ Cenozoic
 - D. Mesozoic→Archaeozoic→ Cenozoic
- 114. Organization of stem apex into tunica and corpus is mainly determined by
 - A. Planes of cell division
 - B. Rate of cell grown
 - C. Rate of shoot tip grown
 - D. Regions of meristematic activity



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- A. Pure line
- B. Synthetic variety
- C. Inbreds
- D. Hybrid variety

116. Jute is obtained from *Corchorus* sp. This is

- A. Phloem fiber
- B. Xvlem fiber
- C. Surface fiber
- D. Tracheo fiber

117. Dry indehiscent single-seeded fruit formed from bicarpellary syncarpous inferior ovary is

- A. Berry
- B. Caryopsis
- C. Cypsela
- D. Cremocarp

118. Which of the following spores are characteristic of the black bread mould *Rhizopus*?

- A. Arthrospore and Blastospore
- B. Sporangiospore and Zygospore
- C. Ascospore and Zygospore
- D. Arthrospore and Ascospore

119. The effect of gaseous pollutants depend mainly on their –

- A. Longevity in air
- B. Ability to settle down
- C. Hydrophobic nature
- D. Solubility in water

120. Spore mother cell in Bryophytes is

- A. Diploid
- B. Haploid
- C. Polyploid
- D. Triploid



- 121. Which of the following is a disadvantage of most of the renewable energy sources?
 - A. Highly polluting
 - B. Unreliable supply
 - C. High waste disposal cost
 - D. High running cost
- 122. The classification that is exhaustive and broad based
 - A. Phylogenetic system
 - B. Natural system
 - C. Modern system
 - D. Artificial system
- 123. The element found in all amino acids that is not found in carbohydrates is
 - A. Oxygen
 - B. Hydrogen
 - C. Carbon
 - D. Nitrogen
- 124. Smooth endoplasmic reticulum is the site of
 - A. Protein synthesis
 - B. Lipid synthesis
 - C. Amino acid synthesis
 - D. Carbohydrate synthesis
- 125. Electron transport system is located in mitochondrial
 - A. Inner membrane
 - B. Outer membrane
 - C. Inter membrane space
 - D. Matrix
- 126. Accurate determination of water content in soil is made by
 - A. Calcium carbide method
 - B. Sand bath method
 - C. Alcohol method
 - D. Oven-drying method



- 127. The dark reaction in photosynthesis is called so because
 - A. It is light-independent
 - B. It cannot occur during day time
 - C. It occurs rapidly at night
 - D. Things cannot be seen during this period
- 128. Removal of hydrogen and CO₂ from substrate is called
 - A. Decarboxylation
 - B. Reductive decarboxylation
 - C. Oxidative decarboxylation
 - D. Oxidation
- 129. The six most common atoms in organic molecules are
 - A. C, H, O. He, Ca and K
 - B. C, H, N, O, P and S
 - C. C, H, O, Mn, Mg and S
 - D. C, H, N, O, P and K
- 130. Gregore Johannes Mendel did not observe linkage due to
 - A. Independent assortment
 - B. Mutation
 - C. Synapsis
 - D. Crossing over
- 131. In Pteridophytes, reduction division occurs when
 - A. Gametes are formed
 - B. Spores are formed
 - C. Prothallus is formed
 - D. Sex organs are formed
- 132. Viral genome attached to the bacterial genome is termed as
 - A. Bacteriophage
 - B. Prophage
 - C. Lysophage
 - D. Virophage



- 133. Enzyme immobilization is
 - A. Changing a soluble enzyme into insoluble state
 - B. Changing pH so that enzyme is not able to carry out its function
 - C. Conversion of an active enzyme into inactive form
 - D. Providing enzyme with protective covering
- 134. Population of genetically similar plants obtained from same individual by vegetative method
 - A. Propagules
 - B. Buds
 - C. Clone
 - D. Callus
- 135. Enzymes having slightly different molecular structure but performing identical activity are
 - A. Coenzymes
 - B. Apoenzymes
 - C. Holoenzymes
 - D. Isoenzymes
- 136. Intellectual Property Rights protect the use of information and ideas that are of
 - A. Moral value
 - B. Commercial value
 - C. Ethical value
 - D. Social value
- 137. Pyrenoids are
 - A. Starch grains surrounded by oil droplets
 - B. Protein surrounded by starch grains
 - C. Protein surrounded by oil droplets
 - D. Starch grains surrounded by protein
- 138. Pasteurization is a
 - A. Low temperature treatment
 - B. Steaming treatment
 - C. High temperature treatment
 - D. Ultralow temperate treatment



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139.	Protonoma	10	tound	111
137.	Protonema	19	Iouna	ш

- A. Polytrichum
- B. Porella
- C. Marchantia
- D. Anthoceros

140. Ozone is found in

- A. Exosphere
- B. Ionosphere
- C. Stratosphere
- D. Mesosphere

141. A tautonym is –

- A. Same name for genus and species
- B. Non-latinised name
- C. Common name used as scientific name
- D. Unscientific explanation of a phenomenon
- 142. Some of the enzymes, which are associated in converting fats into carbohydrates, are present in
 - A. Glyoxysomes
 - B. Liposomes
 - C. Microsomes
 - D. Golgi bodies
- 143. How many hydrogen bonds form between U and A in a Watson-Crick base pair interactions?
 - A. 1
 - B. 2
 - C. 3
 - D. 4

144. Phytochrome is involved in

- A. Photosynthesis
- B. Photorespiration
- C. Geotropism
- D. Photoperiodism



- 145. Why are haploids superior to diploids in study of mutations?
 - A. They have smaller number of chromosomes
 - B. They have shorter life time
 - C. They allow expression of recessive mutation
 - D. They can be produced large number very easily
- 146. What is the correct descending sequence of taxonomic categories?
 - A. Class, order, division, family, species, tribe
 - B. Family, order, genus, tribe, division, class
 - C. Tribe, genus, class, division, family, order
 - D. Division, class, order, family, tribe, genus
- 147. The negative charge of DNA is due to
 - A. Deoxy ribose sugar
 - B. Sugar, phosphate and amino aicd
 - C. Phosphate group
 - D. Nitrogen bases particularly Adenine
- 148. Which of the following is best suited method for production of virus-free plants?
 - A. Embryo culture
 - B. Meristem culture
 - C. Ovule culture
 - D. Callus culture
- 149. Acid rains are produced by
 - A. Excess NO₂ and SO₂ from burning fossil fuels
 - B. Excess production of NH₃ by industry and coal gas
 - C. Excess release of carbon monoxide by incomplete combustion
 - D. Excess formation of CO₂ by combustion and animal respiration
- 150. A character is determined by many genes and does not show discrete variation and is known as
 - A. Qualitative character
 - B. Quantitative character
 - C. Pseudo dominance
 - D. Multiple allelic character



