



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 1

Exercise

1. Necrosis (die-back) of the tip of young leaves is caused due to the deficiency of

A. Iron

B. Stanganese

C. Zinc

D. Copper

Answer:



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2. Nitrogensium enzyme is a

A. magnesium-iron protein

B. molybdenum- iron protein

C. iron-copper protein

D. nickel iron protein

Answer:



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3. In green plants, Boron assists

A. acting an enzyme cofactor

B. photosynthesis

C. sugar transport

D. activation of enzyme

Answer:



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4. Hydroponic is

A. plant growth in liquid culture medium

B. plant growth in mineral deficient soil

C. submerged hydrogBIOtic plant

D. plant growth under laboratory growth.

Answer:



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5. Which of the following enhances sodium reabsorption?

A. low extracellular fluid volume

B. aldosterone

C. ADH

D. both (B) and (c)

Answer:



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6. Osmoregulation is controlled by the

A. removal of N_2 form the body

B. concentration of ssalt and water in the
body

C. pH of the blood and other tissues

D. osmotic properties of cell membranes.

Answer:



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7. Which of following hormone is a steroid?

A. oestrogen

B. adrenaline

C. thyroxine

D. prostaglandin

Answer:



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8. A single unit membrane is present over-

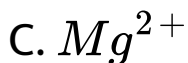
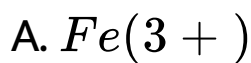
- A. Nucleus
- B. Mictochondrion
- C. Lysosome
- D. Chloroplast.

Answer:



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9. Main element present in middle lamella is



Answer:



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10. Motor cells take part in

A. Guttation

B. Transpiration

C. Inrolling

D. All the above.

Answer:



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11. Vascular bundles are closed when they-

- A. Have cambium
- B. Lack cambium
- C. Lack pericycle
- D. Lack endodermis.

Answer:



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12. The outermost sheath of connective tissue, that surrounded a skeletal muscle is called-

- A. epimer
- B. epimere
- C. epimerite
- D. epimysium.

Answer:



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13. In two kingdom classification prokaryotes are placed in

- A. Kingdom plantae
- B. Kingdom animalia
- C. scyphozoa
- D. protozoa.

Answer:



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14. A unicellular organism often considered connecting link between plants and animals is

A. Paramecium

B. Euglena

C. Entamoeba

D. Monocystis

Answer:



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15. Where malpighian tubules are situated?



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16. Fill in the blanks:- Haversian system is a diagnostic feature of _____



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17. Name an essential element absorbed by plant from air.



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18. Write true or false:-

75% of carbon is lost in C_2 pathway.



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19. Write true or false:-

Name one cell which synthesizes collagen.



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20. Write true or false:-

What causes ocremegoly?



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21. What are methangogens.



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22. Write two functions of mesosomes.



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23. What is procambium?



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24. What do you mean by egg apparatus?



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25. Which cell organelle is known as transducer and why?



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26. Mention any two uses of transpiration in plant.



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27. Explained: NADP.



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28. What do you mean by ultrafiltration?



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29. The difference between Gram positive and negative bacteria is



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30. Mention the difference between collagen and elastin fibres.



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31. State the functions of connective tissue.



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32. What are hydathode and lenticel?



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33. Write three functions of cell wall.



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34. In which type of cell does the cell wall remain? Describe the structure of cell wall with diagram.



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35. State the functions of nucleus and Golgi body in brief.



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36. Semipermeable membrane and Selectively permeable membrane.



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37. What do you mean by diffusion and inhibition?



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38. Plants absorb nitrogen from soil by what forms?



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39. State about the three stage process of urine formation.



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40. What is juxtaglomerular apparatus?



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41. What is excitability and contractility



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42. Mention the structural and functional differences between Rough Endoplasmic Reticulum (RER) and Smooth Endoplasmic Reticulum (SER).



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43. What is ribophorin?



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44. Name the respiratory muscles and mention their roles in respiration.



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45. What do you mean by anatomical dead space and BIOsiological dead space? State their significance.



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46. Write the differences between photosynthesis and respiration.



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47. What are called the algal and fungal parts of Lichess?

- A. BIOcobiont
- B. mycobiont
- C. both (a) and (c)
- D. none of these

Answer:



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48. Virus have

- A. DNA enclosed in a protein coat
- B. Prokaryotic nucleus
- C. Single chromosome
- D. Both DNA and RNA

Answer:



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49. In mammals, histamine is secreted by

A. Fibroblast

B. Histiocyte

C. Lymphocytes

D. Mast cell

Answer:



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50. Which of the following is known as tissue membrane?

- A. serous membrane
- B. cutaneous membrane
- C. mucous membrane
- D. all of these

Answer:



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51. In *Periplaneta americana* hepatic caeca is derived from

A. mid gut

B. oesophagus

C. crop

D. ileum

Answer:



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52. Watson and Crick are known for their discovery that DNA is

A. Single stranded

B. Double stranded

C. having deoxyribose only

D. Template for r-RNA synthesis

Answer:



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53. Casein present in milk is

A. Fat

B. Carbohydrate

C. Protein

D. Bacterium

Answer:



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54. Photolysis of water is associated with

A. PS I

B. PS II

C. cyterb

D. quinone

Answer:



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55. Chlorophyll 'a' is present in

A. all photosynthetic eukaryotes as well as prokaryotes

B. all plants except fungi

C. all higher plants carrying out photosynthesis

D. all O_2 evolving photosynthetic organism

Answer:



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56. Indole-3-acetic acid is chemically similar to the amino acid-

A. Proline

B. Methionine

C. Tryptophan

D. Phenylalanine

Answer:



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57. The synthetic 'rooting powder' commonly used by farmers to induce the formation of adventitious roots in cutting contain

A. A mixture of IBA and NAA

B. 2,4D

C. A mixture of IAA and IAN

D. ABA

Answer:



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58. Abnormal heart sound (murmur) is a defect of the

A. SA-node

B. valves

C. AV-node

D. chordae tendineae

Answer:



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59. Adrenaline directly affects on--

A. SA-node

B. β – cellsoflan \geq rhans

C. dorsal root of spinal cord

D. epithelial cell of stomach.

Answer:



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60. The volume of blood each ventricle pumps out during a cardiac cycle is about

A. 1200 ml

B. 70 ml

C. 5000 ml

D. 40 ml

Answer:



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61. What is natural pace maker?



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62. Urea is formed from ammonia and CO_2 in



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63. What is haemodialysis?



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64. What is water potential?



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65. Which element of gastric juice acts as an antiseptic -



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66. Write true or false:

A tendon muscles always joints muscle to muscles always joints muscle to muscle.



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67. Name two exclusive marine phylum mentioning the characters each.



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68. Give the scientific name of one hemichordates.



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69. What is brown fat?



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70. What do you mean by false epithelium?



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71. Why lysosomes are called suicidal bag in a cell?



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72. Write four factors essential for water potential.



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73. Represent schematically the reactions of the Krebs ' cycle. Why Krebs' cycle is called an Amphibolic Pathway?



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74. What do you mean by dialysis of kidney?



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75. What are the major differences between mammals and reptiles?



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76. What are the general characteristics of molluscs?



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77. State three differences between sclerenchyma fibre and sclereid.



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78. Give three differences between apical and lateral meristem.



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79. "Growth of long bones are bidirectinal" -
Explain.



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80. What are the different steps of mitosis



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81. What is oxidative phosphorylation?



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82. State the role of centrosome in cell division.



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83. What is chlorosis? How it differs from albino plants?



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84. What do you mean by Hill reaction and Blackman's reaction?



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85. Photosynthesis does not occur in roots justify.



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86. Name the accessory excretory organs of human. Write the main excretory products of them.



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87. Write the functions of PCT and DCT of renal tubule.



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88. Write the anatomical divisions of cerebrum.



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89. What do you understand by cell cycle? Describe briefly all those events that occur during interphase of cell cycle that prepare the cell for nuclear division.



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90. Anaphase-I of meiosis differ from anaphase of mitosis in one essential respect. Describe differences between them .



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91. Anaphase-I of meiosis differ from anaphase of mitosis in one essential respect. Describe differences between them .



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92. What are the main steps in aerobic respiration? Where does it take place?



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93. Give the schematic representation of an overall view of Krebs cycle.



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94. Describe the sequences of events of chemical changes during muscular

contractions.



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95. Which one is living fossil?

A. Selaginella

B. Pinus

C. Cycas

D. None of them

Answer:



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96. Gymnosperms are called naked seed plants because they lack

A. Endosperm

B. Testa

C. Ovary wall

D. Cotyledons

Answer:



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97. Stem may function in

A. Protection

B. Spread of branches

C. Storage, support and vegetative
propagation

D. All of the above.

Answer:



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98. Number of chambers present in the tubular heart of cockroach.

A. 7

B. 9

C. 13

D. 14

Answer:



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99. Deficiency symptoms of nitrogen and potassium are visible first in

A. Senescent leaves

B. Young leaves

C. roots

D. buds

Answer:



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100. Excess of manganese inhibits the translocation of - to the shoot apex-

A. Calcium

B. Potassium

C. Iron

D. Magnesium

Answer:



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101. Which one is example of subaerial modification of stem

A. Asparagus

B. Polyalthia

C. Tridax

D. Oxalis

Answer:



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102. Auxanometer is used to measure.

A. rate of photosynthesis

B. rate of plant growth

C. height of plant

D. wind velocity

Answer:



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103. Kinetin was first isolated from

- A. Immature corn seed
- B. DNA of coconut milk
- C. DNA of herring sperm.
- D. DNA of monkey's liver.

Answer:



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104. Which cell organelle reduces the number of other organelle?

A. Oxysome

B. Lysosome

C. Mitochondria

D. None of these

Answer:



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105. Thylakoid occurs inside

A. Mitochondira

B. Chloroplast

C. Golgi apparatus

D. ER

Answer:



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106. After surgical removal of an infected gall bladder, a person must be especially careful to restrict the dietary intake of

A. protein

B. fat

C. sugar

D. starch

Answer:



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107. Part of stomach which open into duodenum is

A. trypsin

B. chymotrypsin

C. pepsin

D. secretin.

Answer:



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108. The maximum amount of electrolytes and water (70-80 percent) form the glomerular

filtrate is reabsorbed in which part of the nephron?

A. filtration of blood

B. maintenance of glomerular filtration rate

C. selective reabsorption of glucose, amino acid NaCl and water

D. reabsorption of salts only.

Answer:



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109. Where arcuate artery is found.



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110. What is metaxylem?



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111. Name the pigment found in root nodules of leguminous plant.



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112. What type of tissue is the main component of teeth?



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113. Give one example of opn circulatory system



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114. What term is used for the muscle which draw a bone away from the body midline?



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115. What do you mean by five kingdom classificatoin?



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116. What is PPLO?





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117. What is hemicycle flower? Give example



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118. Why saturated fatty acid have higher melting point?



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119. Why meiosis is known as hetero typic division?



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120. What is EMP pathway?



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121. What is tidal volume? Mention its value.



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122. Explain why trachea does not collapse?



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123. Write differences between phylloclade and phyllode with example



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124. Give three functions of stem of plants.



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125. Define: Aseticeation, Placentation, zygomorphic



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126. Write differences between autotrophs and heterotrophs.



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127. Write any three features of Monera.



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128. State three characteristics of enzyme.



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129. Describe the 'induced fit' model of enzyme action. What do you mean by allosteric enzyme?





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130. Describe briefly the features of leptotene of Meiosis I with diagram.



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131. What do you mean by protoplasmic and floating respiration.



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132. In Kreb's cycle



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133. How protein is digested in human alimentary canal?



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134. Mention the composition of salivary juice present in alimentary canal.



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135. What are the junctional tissues of heart?

State their position in heart.



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136. Compare the structure of artery and vein.



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137. Define :

Mean arterial blood pressure



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138. Define :

Casual blood presure



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139. What happens when Arterioles are constricted and elasticity of blood vessels is decreased?



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140. What is autonomic nervous system? Mention the characteristics of autonomic nervous system.



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141. What are the conditions necessary for fixation of atmospheric nitrogen by Rhizobium? What is their role in N_2 - fixation?



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142. What are the steps involved in formation of a root nodule?



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143. What are lipids? Mention their importance to the living beings?



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144. The response toward a stimulus is said to be

A. negative

B. avoidance

C. positive

D. none of them

Answer:



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145. The self-adjusting balance of life functions, such as maintaining temperature are referred to as

A. metabolism

B. homeostasis

C. adaptation

D. none of them

Answer:



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146. In which of the following whorled phyllotaxy is present?

A. Calotropis

B. Nerium

C. Guava

D. Rose

Answer:



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147. What is the nature of stipule in Gardenia plant

A. Adnate

B. Interpetiolar

C. Intrapetiolar

D. Ochreate

Answer:



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148. Embryonic connective tissue is derived from

A. ectoderm

B. endoderm

C. mesenchyma

D. mesogloea

Answer:



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149. Enzyme that convert fats into carbohydrate occurs in

A. Glyoxysomes

B. Golgi apparatus

C. Mitochondria

D. Cytoplasm

Answer:



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150. Enzyme amylase belongs to category

A. Oxidoreductase

B. Transferases

C. Hydrolases

D. Isomerases.

Answer:



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151. Which one of the following is correctly matched?

A. potassium-readily immobilisation

B. bakanae disease of rice seedlings-F Skoog

C. Passive transport of nutrients-ATP

D. apoplast-plasmodesmata

Answer:



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152. In the process of osmosis

- A. Both protoplasm and cell wall act as single layer
- B. Only protoplast act as a single layer
- C. Only cell membrane act as single laye

D. None of these.

Answer:



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153. The archaebacteria occurring in marshes, swamps, rumens of cattles, gobar gas plants are

1. methanogens
2. ammonifying bacteria

3. thermoacidophiles

4. denitrifying bacteria

A. oxidize ammonia to nitrates

B. convert free nitrogen to nitrogenous
compounds

C. convert proteins to free nitrogen

D. reduce nitrates to free nitrogen.

Answer:



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154. Mineral known to be required in large amounts for plant growth include--

A. magnesium, sulphur, iron, zinc

B. phosphorus, potassium, sulphur, calcium

C. calcium, magnesium, manganese, copper

D. potassium, phosphorus, selenium, boron

Answer:



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155. Most of the digestion in human G.I. tract takes place in

A. trachea

B. small intestine

C. oesophagus

D. stomach

Answer:



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156. The acidic region of G.I. tract is

A. large intestine

B. mouth

C. stomach

D. small-intestine.

Answer:



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157. Which of the following is not a sympathetic effect?

A. increased blood pressure

B. increased heart rate

C. increased constriction of blood vessels

D. increased storage of glycogen from glucose.

Answer:



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158. Fill in the blanks:

The Endarch type of xylem is present in all_____



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159. Fill in the blanks:

The roots possess the vascular bundles which are_____.



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160. Give one function of Rhizobium



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161. Give two examples of long dayplant



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162. What is biopiracy? Give example. What is patent?



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163. Write true or false:

Vasopresin is linked with the concentration of urine.



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164. Explain regeneration process in Planaria.

Describe how artificial vegetative generation occurs through grafting.



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165. Define biodiversity.



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166. Concentric vascular bundles are



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167. Define apical meristem.



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168. Write two functions of golgi body?



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169. Mention the mechanisms involved in ascent of sap.



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170. What do you mean by nitrification and denitrification?



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171. What is micturition?



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172. Briefly describe about the anternate food sources.



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173. Write the differences between α , β & γ diversity. \



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174. Briefly state about different between protostele and siphonostele.



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175. What are bulbils and bud thorns?



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176. 2 difference between cell membrane and cell wall



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177. State the difference:

Chloroplast and amyloplast





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178. State the difference:

Starch grains and zymogen granules



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179. Describe the structure of the nucleus of eukaryotic cell with labelled diagram.



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180. Show the differences between phagocytosis and pinocytosis.



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181. Write about nitrogen fixation during nitrogen cycle.



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182. Why do plants need potassium and magnesium?



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183. Write the significance of glycolysis in respiration



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184. What are the different accessory organs?
State their functions.



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185. What is diabetes insipidus? State its cause and symptoms.



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186. What is peristalsis? Write its function.



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187. Write about the ultrastructure of plastid with a diagram.





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188. Describe the structure of cell membrane with a diagram.



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189. Describe role of magnesium in life of a green plant and explain how you detect their deficiency?



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190. Give an account of trace elements , give example



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191. Describe the composition and functions of saliva



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192. Which of the following is not related to light perception?

A. rhodopsin

B. perilymph

C. choroid

D. lens

Answer:



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193. The most extensively developed region of most mammalian brains is

A. optic chiasma

B. midbrain

C. hypothalamus

D. cerebrum

Answer:



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194. Which of the following is not a site of transduction in some sensory structure?

- A. organ of corti
- B. olfactory hair cells
- C. macula
- D. ganglion cells

Answer:



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195. Which of the following is an essential part of photosynthesis?

A. photolysis of water

B. plasmolysis

C. photorespiration

D. glycolysis

Answer:



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196. A cell that lacks chloroplast does not

A. evolve CO_2

B. liberate O_2

C. require water

D. utilise carbohydrate.

Answer:



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197. The red drop is due to the disruption of photchemical activity of

A. PS I

B. PS II

C. PS I and PS II

D. carotenoid.

Answer:



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198. Name the proteins presents in the A band and I band of a muscular tissue 21.



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199. Agar-agar is obtained from

A. Gelidiella

B. Ulothrix

C. Spriogyra

D. Chlorella

Answer:



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200. Who first discovered ribozyme?

- A. Kuhne
- B. Cech et al
- C. Northrop
- D. Summer

Answer:



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201. Blood cells of cockroach

- A. leucocytes
- B. amoebocytes
- C. haemocytes
- D. erythrocytes

Answer:



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202. Anal cerci is present in cockroach

A. in male cockraoch

B. in female

C. in both

D. none of these

Answer:



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203. Non-essential floral organs without
different and corolla are called

A. Thalamus

B. Pedicel

C. Perianth

D. Lodicules

Answer:



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204. Which one is most abundant protein in the animal world?

A. Insulin

B. Collagen

C. Haemoglobin

D. Trypsin

Answer:



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205. Motile zygote of *Plasmodium* occurs in

- A. Gut of female *Anopheles*
- B. Salivary gland of *Anopheles*
- C. Human liver
- D. Human RBCs.

Answer:



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206. Give full form of IAA and 2,4-D.



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207. Name the unit of oxidative phosphorylation.



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208. What type of cells are present in root cortex?



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209. Name the bile pigments.



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210. Which enzyme helps to digest the fat in humans?



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211. Name the respiratory muscle used in inspiration.



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212. What is taxonomic hierarchy.



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213. Write roles of zoological parks.



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214. What are root buttresses?



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215. What are homophyll and heterophylly?



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216. Describe the 'induced fit' model of enzyme action. What do you mean by allosteric

enzyme?



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217. Give two examples of photosynthetic bacteria.



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218. What do you mean by metamorphosis?
Give example.



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219. Explain why trachea does not collapse?



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220. Briefly describe the different stages of taxonomy.



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221. Write a brief notes on Species Concept.



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222. State three differences between true root and adventitious root.



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223. Briefly state three physiological functions of root.



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224. State three features of cardiac muscles.



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225. Difference between Enzyme and Inorganic Catalyst.



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226. What are snRNA, Telomere rRNA and gRNA.





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227. What do you mean by prosthetic group and co-enzyme?



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228. Write the difference between transpiration and guttation.



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229. How do rise in temperature and increased wind velocity affect transpiration?



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230. Write normal percentage of O_2 and CO_2 of alveolar air.



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231. What is vital capacity? Write its value.



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232. What do you mean by Fick's principle?



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233. Mention three types of RNA and their functions.



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234. Give the classification of enzymes.



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235. What is glycolysis? Write down the sequences of reactions that occurs in glycolysis in tabular form.



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236. Describe the composition and function of gastric juice.



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237. During the Occurance of spontaneous process, free energy-

A. increases

B. is not liberated

C. remains constant

D. decreases

Answer:



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238. Animals spending winter in dormant condition is referred to

A. mimicry

B. hibernation

C. camouflage

D. aestivation

Answer:



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239. Closed vascular bundles are the ones which

- A. Contain cambium
- B. Lack cambium
- C. Lack xylem
- D. Possess lysigenous cavity

Answer:



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240. Multilayered epidermis is found in

A. Ficus

B. Datura

C. Pea

D. Fern

Answer:



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241. Cartilage is formed by

A. osteoblast

B. fibroblast

C. chondrocytes

D. osteocytes.

Answer:



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242. Cell division is initiated in plant by

A. Cytokinin

B. Auxin

C. Gibberellin

D. Abscisic acid

Answer:



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243. Zygotic meiosis can be traced in:

1. Funaria
2. Dryopteris
3. Puccinia
4. Chlamydomonous

A. Funaria

B. Dryopteris

C. Puccinia

D. Chlamydomonous.

Answer:



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244. In floating leaves like *Nymphaea* and *Nelumbo* leaves are

- A. Epistomatic
- B. Amphistomatic
- C. Hypostomatic
- D. Astomatic

Answer:



245. Apple, mulberry types of leaves are:

1. Epistomatic

2. Hypostomatic

3. Amphistomatic

4. Astomatic

A. Epistomatic

B. Hypostomatic

C. Amphistomatic

D. Astomatic

Answer:



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246. Phylum Protozoa is classified on the basis of

- A. The acid growth hypothesis
- B. Auxin-ethylene balance hypothesis
- C. Sodium potassium pump hypothesis
- D. Osmotic pressure hypothesis.

Answer:



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247. Which one of the following pair is correctly matched?

- A. Auxin-cell division
- B. Giberellin-intermodal elongation
- C. Cytokini-fruit ripening
- D. Ethyleneapical dominance

Answer:



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248. Chloride shift is called:

1. Co-toxicity
2. Haldane effect
3. Bohr effect
4. Hamburger's phenomenon

A. Co-toxicity

B. Haldance effect

C. Bohr effect

D. Hamburger's phenomenon.

Answer:



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249. In $Na^+ - K^+$ Pump of active transport there is

A. influx of Na^+ and efflux of K^+

B. efflux of Na^+ and influx of K^+

C. influx and efflux of Na^+ only

D. only efflux of Na^+

Answer:



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250. In the formation of Acetyl Co-A from pyruvic acid in mitochondria, pyruvic acid gets

1. oxidised

2. decarboxylated

3. both (1) and (2)

4. reduced and isomerised

A. oxidative phosphorespiration

B. oxidative decarboxylation

C. oxidative phosphorylation

D. oxidative hydrogenation.

Answer:



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251. From where lateral root originate?



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252. In which flower the ovary is superior?



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253. What is gerontology?



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254. What is dyspnea?



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255. Write the full form of COPD.



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256. Write true or false:

Vasa recta plays no role in counter-current system.



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257. What do you mean by holophytic nutrition.



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258. What are capsomeses?



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259. Write functions of carotene.



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260. What is haemolymph?



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261. What is mitotic apparatus?



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262. What is mitotic apparatus?



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263. What do you mean by sigmoid growth curve?



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264. Write differences between autotrophs and heterotrophs.



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265. What do you mean by Tachycardia and bradycardia?



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266. What do you mean by ETC?



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267. Write the objective of classification.



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268. Draw a labelled diagram of alimentary canal of a cockroach.



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269. What are spermatheca? Where they are situated? What is the function of

spermatheca?



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270. State three function of parenchyma.



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271. State the difference between centromere and chromomere.



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272. According to 'Finch and Klug'. State the solenoid model of nucleosome.



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273. What are the differences between euchromatin and heterochromatin?



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274. Write differences between PS I & PS II.



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275. Write three differences between vegetative growth and reproductive growth.



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276. What is cardiac cycle? Name the instrument with which clinically blood pressure is measured and from which blood vessel.





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277. State why lack of oxygen occurs in the body in carbon monoxide poisoning.



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278. State the changes in red bone marrow during acclimatisation.



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279. Briefly describe the cytokinesis in plant and animal cell.



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280. State the difference between mitosis and meiosis in respect to metaphase.



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281. Define CAM.



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282. Discuss the mechanism and significance of Hatch and slack pathway in photosynthesis.



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283. How protein is digested in human alimentary canal?



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