



BIOLOGY

BOOKS - SARAS PUBLICATION

NEURAL CONTROL AND COORDINATION

Example

1. What is neuron?



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2. What are neuroglia?



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3. What is nerve impulse?



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4. What is meant by action membrane potential.



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5. What is meant by threshold potential?



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6. What is called lazy gates?



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7. What is a Synapse?



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8. What is synaptic cleft?



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9. What is brain stem?



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10. Corpora quadrigemina



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11. What is choroid plexus?



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12. What is Cauda equina ?



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13. Define reflex arc.



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14. What is reflex action ? Explain the mechanism.



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15. What is meant by receptors?



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16. What is a nerve?



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17. What is ganglia?



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18. What are enteric plexuses?



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19. What is cataract?



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20. What is conjunctiva?



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21. What is 'accommodation of the human eye?



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22. What is maculae lutea?



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23. What is tectorial membrane?



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24. What is meant by stereocilia?



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25. What is otolith?



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26. What is Tactile Merkel's disc?



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27. What is Krause end bulbs?



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28. What is papillae?



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29. What is neurotransmitters?



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30. What is septum pellucidum?



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31. What is conjunctivities?



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32. What is Meissner's corpuscles?



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33. Define sensation.



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34. What is meant by reflex arc?



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35. Differentiate the functions of myelinated and non-myelinated neurons.



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36. Differentiate ECF and ICF in conduction of nerve impulses.



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37. Tabulate the difference between sympathetic and para sympathetic neural system.



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38. Differentiate unconditioned and conditioned reflex.



[Watch Video Solution](#)

39. Differentiate between rod and cone cells.



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40. Why is the blind spot called so ?



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41. Sam's optometrist tells him that his intraocular pressure is high. What is this

condition called and which fluid does it involve ?



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42. The action potential occurs in response to a threshold stimulus, but not at sub threshold stimuli. What is the name of the principle involved ?



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43. Cornea trasplant in human is almost never rejected state the reason.



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44. Pleasant smell fo food urged Ravi to Rush into the kitchen. Name the parts of the brain involved in the identification of food and emotional responses to odour.

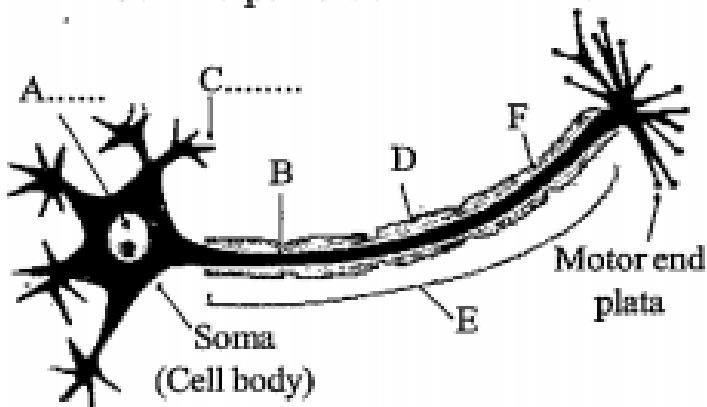


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45. At the end of repolarization, the nerve membrane gets hyperpolarized. Why ?

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46. label the parts of the neuron.



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47. What is the ANS controlling centre? Name the parts that are supplied by the ANS.



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48. Classify receptors based on type of stimuli.



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49. The choroid plexus secretes cerebrospinal fluid. List the function of it.



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50. Why the limbic system is called the emotional brain ? Name the parts of it.



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51. Name the first five cranial nerves, their nature and their functions.



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52. The sense of taste is considered to be the most pleasurable of all senses.

Describe the structure of the receptor involved with a diagram.



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53. Describe the structures of olfactory receptors.



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54. What are the two major divisions of human neural system?



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55. what is a neuron ?



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56. What is Neuroglia ? Mention its function ?



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57. Name the functional classes of Neurons.



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58. What are the three major parts of neuron.



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59. Differentiate the functions of myelinated and non-myelinated neurons.



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60. What is Axon hillock?



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61. What are Nodes of Ranvier?



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62. What is nerve impulse?



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63. What are the two main phases of transmission of impulses?



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64. List out the types of voltage gated channels.



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65. Tabulate the ionic channels in the axolemma.



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66. What is meant by action membrane potential.



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67. Which is the longest cell and longest axon in the human body?



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68. What is meant by threshold potential?



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69. List out the phases in action membrane potential.



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70. What is "all or none principle"?



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71. What is spike potential?



[Watch Video Solution](#)

72. What is called lazy gates?



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73. Which decides the speed of the conduction of a nerve impulse?



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74. What is a Synapse?



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75. What is Synaptic Cleft?



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76. Name the three regions of brain.



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77. Can you state why some areas of the brain and spinal cord are gray and some are white?



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78. Name the lobes of cerebrum.



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79. Name the two regions of fore brain.



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80. What is cerebral cortex?



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81. What is meant by sulcus and gyrus.



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82. What are the three paired structures of diencephalon?



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83. What is corpus callosum?



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84. What is brain stem ? Write its parts.



[Watch Video Solution](#)

85. Corpora quadrigemina



[Watch Video Solution](#)

86. What is choroid plexus?



[Watch Video Solution](#)

87. What is Cauda equina ?



[Watch Video Solution](#)

88. What are the two types of Autonomic neural system?



[Watch Video Solution](#)

89. Define reflex arc.



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90. What is reflex action ? Explain the mechanism.



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91. What are the two types of reflex?



Watch Video Solution

92. What are the components of peripheral neural system.



Watch Video Solution

93. What is meant by receptors?



Watch Video Solution

94. What is nerve?



[Watch Video Solution](#)

95. What is ganglia?



[Watch Video Solution](#)

96. What are enteric plexuses?



[Watch Video Solution](#)

97. Name the three layers of eyeball.



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98. What is sty?



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99. What are the three types of cells present on the neural retina?



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100. Write the two types of muscles present in iris?



Watch Video Solution

101. What is cataract?



Watch Video Solution

102. What is conjunctiva?



Watch Video Solution

103. What is accommodation?



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104. What is maculae lutea?



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105. What are the three ear ossicles.



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106. Name the chambers of the cochlea.



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107. What is tectorial membrane?



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108. What are the structures present in the membranous labyrinth?



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109. Name the membranes which separate the three chambers of cochlea?



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110. What is meant by stereocilia?



[Watch Video Solution](#)

111. What is otolith?



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112. What is Tactile Merkel's disc?



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113. What is Krause end bulbs?



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114. What is papillae?



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115. What is neurotransmitters?



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116. What is septum pellucidum?



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117. What are the accessory structures useful in protecting the eyes.



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118. Name the structures that helps in fixing eyes in the eyeball?



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119. When dust falls in our eyes, the eyelids close immediately not waiting for our willingness, on touching a hot pan, the hand is withdrawn rapidly. Do you know how this happens?



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120. Name the defects of retraction.



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121. Which is the most dynamic cell in the body? Why?



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122. How are defects of ear classified?



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123. What is conjunctivitis?



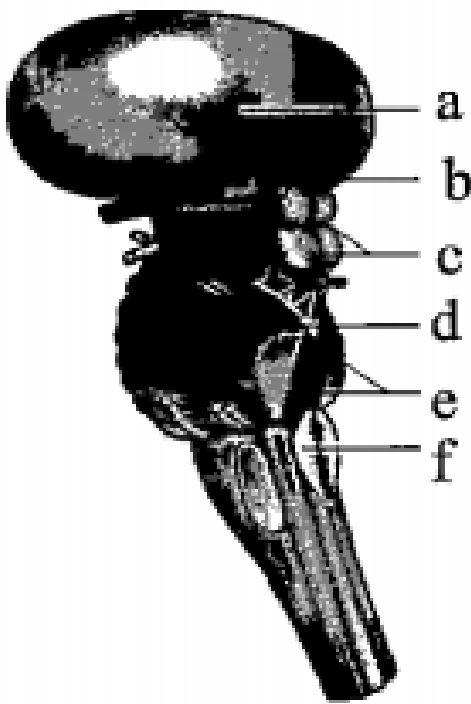
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124. What is the significance of melanin ?



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125. Identify the diagram given below and label its parts.



A

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126. How neural system works in our body?

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127. Damage to the medulla may cause the death of organism. How?



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128. What are the functions of neuroglia ?



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129. Classify neurons on the basis of number of axon and dendrites.



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130. Write a note on saltatory conduction.



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131. Differentiate ECF and ICF in conduction of nerve impulses.



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132. What are the basic functions of the neural system of higher animals?



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133. What are neurons? What are their functions.



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134. Write notes on repolarization.



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135. Write notes on depolarization.



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136. The body maintains a stable condition even when the outside environment changes.

How?





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137. What are the three cranial meninges?



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138. Name the functional areas of Cerebral cortex ?



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139. List out the functions of brain lobes.



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140. Why is thalamus considered as a relay centre for impulses?



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141. Name the functional deficiency of serotonin of norepinephrine. List their

symptoms and treatment to be given.



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142. What are the functional components of a reflex arc? Explain.



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143. Differentiate unconditioned and conditioned reflex.



[Watch Video Solution](#)

144. What is somatic neural system? Write its functions.



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145. Name the two components of autonomic nervous system.



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146. Brief notes on spinal nerves.



Watch Video Solution

147. Differentiate between rod and cone cells.



Watch Video Solution

148. List the causes for conductive deafness.



Watch Video Solution

149. What is Meissner's corpuscles?



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150. What are the main components of limbic system.



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151. How are receptors classified based on their position? Explain it?



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152. Give notes on pigments of colour vision.



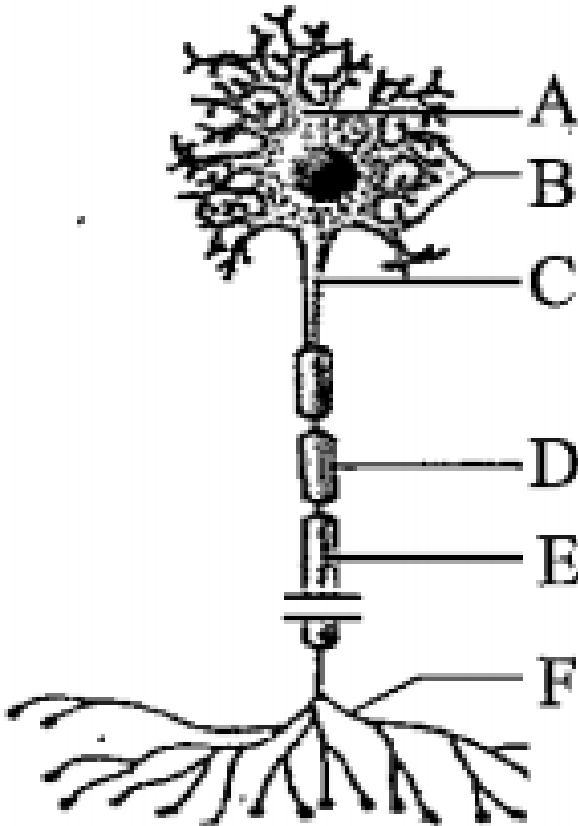
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153. What is meant by resting membrane potential?



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154. Identify what type of neuron is this and label the parts



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155. Identify the structure in the given figure.

Label the parts

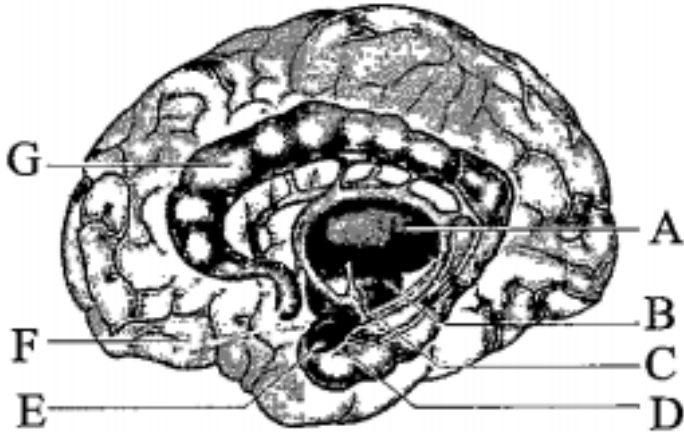


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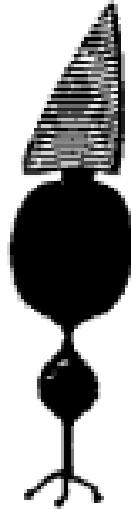


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156. Identify A and B Mention their significance.



A



B

A - Rod cell

B - Cone cell



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157. Name the parts of an organ of equilibrium involved in the following function:

Linear movement of the body



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158. Name the parts of an organ of equilibrium involved in the following function:

Changes in the body position



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159. Name the parts of an organ of equilibrium involved in the following function:

Rotational movement of the head



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160. Write notes on organ of corti.



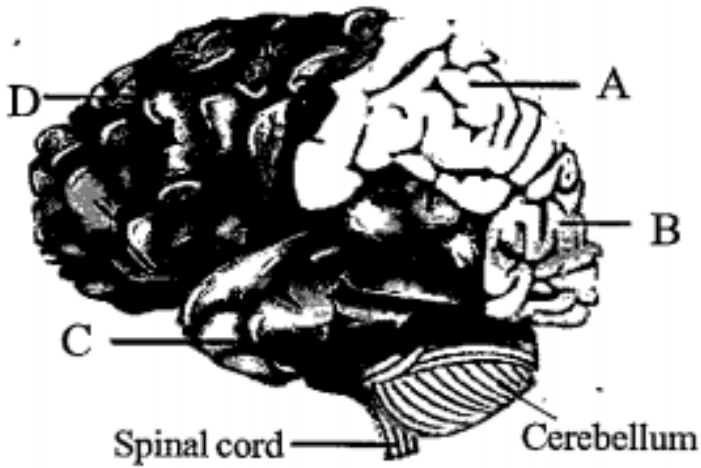
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161. Write notes on spinal cord.



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162. Identify the lobes in the given brain.



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163. Define sensation. What are the events occurs for sensation to take place.

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164. Tabulate the difference between sympathetic and para sympathetic neural system.



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165. Write short notes on epithalamus.



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166. Write short notes on Hypothalamus.



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167. Explain the refractive errors of eye.



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168. Write a short note on mechanism of hearing.



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169. Explain the structure of an ear.



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170. Explain the structure of human eye.



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171. Tabulate the Cranial nerves and its function.



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172. Explain the structure of a neuron.



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173. Write notes on Hind brain.



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174. Skin-sense of touch justify?



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175. How does the ear act as an organ of equilibrium ?



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176. Explain the mechanism of vision.



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177. Tabulate the functions of sympathetic and parasympathetic nerves.



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178. Define reflex arc.



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179. Give a brief account of ionic channels in the Axolemma.



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180. Explain the Ventricles of the brain.



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181. Explain C.S of spinal cord with neat diagram.



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1. The respiratory centre is present in the

A. Medulla oblongata

B. Hypothalamus

C. Cerebellum

D. Thalamus

Answer:



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2. Match the following human spinal nerves in column I with the irrespective number in column II and choose the correct option



- A. (P-iv),(Q-iii),(R-i), (S-ii)
- B. (P-iii),(Q-i), (R-ii), (S-iv)
- C. (P-iv),(Q-i), (R-ii), (S-iii)
- D. (P-ii), (Q-iv), (R-i), (S-iii)

Answer:



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3. Examine the diagram of the two cell types A and B given below and select the correct option



A. Cell-A is the rod cell found evenly all over retina

B. Cell-A is the cone cell more concentrated in the fovea centralis

C. Cell-B is concerned with colour vision in
bright light

D. Cell-A is sensitive to bright light
intensities

Answer:



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4. Longest cell in the human body

A. Neuron

B. Axons

C. Dendrites

D. Nissl's granules

Answer:



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5. The abundant intracellular cation is

A. H^+

B. K^+

C. Na^+

D. Ca^{++}

Answer:



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6. Why is the blind spot called so ?



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7. Sam's optometrist tells him that his intraocular pressure is high. What is this condition called and which fluid does it involve ?



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8. Can you state why some areas of the brain and spinal cord are gray and some are white?



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9. What is choroid plexus?



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10. What is maculae lutea?



[Watch Video Solution](#)

11. What is brain stem ? Write its parts.



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12. Why are we getting running nose while crying ?



Watch Video Solution

13. Differentiate unconditioned and conditioned reflex.



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14. What are the functions of neuroglia ?





[Watch Video Solution](#)

15. Label the parts of the neuron



[Watch Video Solution](#)

16. Pleasant smell fo food urged Ravi to Rush into the kitchen. Name the parts of the brain involved in the identification of food and emotional responses to odour.



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17. Name the first five cranial nerves, their nature and their functions.



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18. The choroid plexus secretes cerebrospinal fluid. List the function of it.



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19. What are the main components of limbic system.



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20. What is meant by resting membrane potential?



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21. Write notes on organ of corti.



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22. Which structure in ear converts pressure waves to action potentials ?

- A. Tympanic membrane
- B. Organ of Corti
- C. Oval window
- D. Semicircular canal

Answer:



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23. Which of the following pairings is correct ?

A. Sensory nerve- afferent

B. Motor nerve- afferent

C. Sensory nerve- ventral

D. Motor nerve-dorsal

Answer:



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24. During synaptic transmission of nerve impulse, neurotransmitter (P) is released from synaptic vesicles by the action of ions (Q). Choose the correct P and Q.

A. P = Acetylcholine, Q = Ca^{++}

B. P = Acetylcholine, Q = Na^{+}

C. P = GABA, Q = Na^{+}

D. P = Cholinesterase, Q = Ca^{++}

Answer:



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25. Examine the diagram of the two cell types A and B given below and select the correct option.



A. Cell-A is the rod cell found evenly all over retina

B. Cell-A is the cone cell more concentrated in the fovea centralis

C. Cell-B is concerned with colour vision in bright light

D. Cell-A is sensitive to bright light intensities

Answer:



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26. Assertion : In membrane the concentration of Na^{++} and K^{+} , and proteins generates action potential.

Reason : To maintain the unequal distribution of Na^{+} and K^{+} , the neurons use electrical energy.

A. Both Assertion and Reason are true and Reason is the correct explanation of the Assertion.

B. Both Assertion and Reason are true but the Reason is not the correct explanations of Assertion.

C. Assertion is true, but Reason is false.

D. Both Assertion and Reason are false.

Answer:



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27. Which part of the human brain is concerned with the regulation of body temperature ?

A. Cerebellum

B. Cerebrum

C. Medulla oblongata

D. Hypothalamus

Answer:



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28. The respiratory centre is present in the

A. Medulla oblongata

B. Hypothalamus

C. Cerebellum

D. Thalamus

Answer:



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29. Match the following human spinal nerves in column-I with their respective number in column-II and choose the correct option.

	Column - I		Column - II
P	Cervical nerves	(i)	5 pairs
Q	Thoracic nerve	(ii)	1 pair
R	Lumbar nerve	(iii)	12 pairs
S	Coccygeal nerve	(iv)	8 pairs

- A. (P-iv),(Q-iii),(R-i),(S-ii)
- B. (P-iii),(Q-i),(R-ii),(S-iv)
- C. (P-iv),(Q-i),(R-ii),(S-iii)
- D. (P-ii),(Q-iv),(R-i),(S-iii)

Answer:



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30. Which of the following cranial nerve controls the movement of eye ball ?

A. Trochlear nerve

B. Optic nerve

C. Olfactory nerve

D. Vagus nerve.

Answer:



31. The abundant intracellular cation is



Answer:



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32. Which of the following statements is wrong regarding conduction of nerve impulse ?

A. In a resting neuron, the axonal membrane is more permeable to K^+ ions and nearly impermeable to Na^+ ions.

B. Fluid outside the axon has a high concentration of Na^+ ions and low

concentration of K^+ , in a resting neuron.

C. Ionic gradient's are maintained by

$Na^+ K^+$ pumps across the resting membrane, which transport $3Na^+$ ions outwards for $2K^+$ into the cell.

D. A neuron is polarized only when the outer surface of the axonal membrane posses a negative a charge and its inner surface is positively charged.

Answer:



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33. All of the following are associated with the myelin sheath except

A. Faster conduction of nerve impulses

B. nodes of Ranvier forming gaps along the
axon

C. Increased energy output of nerve
impulse conduction

D. Saltatory conduction of action potential

Answer:



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34. Several statement are giv here in reference to cone cells which of the following option indicates all correct statement for cone cells ?

Statement

(i) Cone cells are less sensitive in bright light than Rod Cells

(ii) They are responsible for colour vision

(iii) Erythropsin is a photo pigment which is sensitive to red colour light

(iv) They are present in fovea of retina

A. (iii),(ii) and (i)

B. (ii),(iii) and (iv)

C. (i),(iii) and (iv)

D. (i),(ii) and (iv)

Answer:



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35. Which of the following statements concerning the somatic division of the peripheral neural system is incorrect ?

- A. Its pathways innervate skeletal muscles
- B. Its pathways are usually voluntary
- C. Some of its pathways are referred to as reflex arcs

D. Its pathways always involved four neurons

Answer:



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36. When the potential across the axon membrane is more negative than the normal resting potential the neuron is said to be state of

A. Depolarization

B. Hyperpolarization

C. Repolarization

D. Hypopolarization

Answer:



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37. The neural system comprises of highly specialized cells called

A. Neurons

B. Sensory functions

C. Motor functions

D. Autonomic function

Answer:



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38. Transmits commands from the brains to the skeletal and muscular system.

A. Neural functions

B. Sensory functions

C. Motor functions

D. Autonomic function

Answer:



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39. Reflex actions are

A. Motor functions

B. Sensory functions

C. Autonomic functions

D. Neurons

Answer:



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40. Non-nervous special cells are called

A. Neuron

B. Neuroglia

C. Axolemma

D. Neurilemma

Answer:



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41. Neurons that take sensory impulses to the central neural system.

A. Afferent

B. Efferent

C. Interneurons

D. Axon

Answer:



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42. The efferent neurons carry impulses from the central nervous system to the effector organs.

A. Afferent

B. Efferent

C. Neuroglia

D. Axolemma

Answer:



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43. The plasma membrane covering the neuron is called

A. Neurilemma

B. Dendrites

C. Neuroglia

D. Axoglia

Answer:



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44. Plasma membrane covering the axon is called

A. Neurilemma

B. Axolemma

C. Nissl's granules

D. Axon hillock

Answer:



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45. Longest cell in the human body

A. Neurons

B. Axons

C. Dendrites

D. Nissl's granules

Answer:



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46. Granulated endoplasmic reticulum of a neuron is called

A. Neurilemma

B. Dendrites

C. Schwann cells

D. Nissl's granules

Answer:



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47. Axon is a long fibre that arises from a cone shaped area of the cell body called

A. Axolemma

B. Neuroglia

C. Axon hillock

D. Schwann cells

Answer:



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48. Where is Nissl's bodies seen in the nerve cell?

A. Cell body and dendrites

B. Cell body and axon

C. Cell body and myelin sheath

D. Cell body and end place of axon

Answer:



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49. Name the cell organelle which is not seen in the axons.

A. Mitochondria

B. Golgi apparatus

C. Centriole

D. Endoplasmic reticulum

Answer:



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50. each branch at the distal end of the axon terminates into a bulb like structure called

A. Myelin sheath

B. Synaptic knob

C. Neuro-muscular junction

D. Multipolar neurons

Answer:



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51. The axon transmits nerve impulses away from the cell body to

A. Myelin sheath

B. Synaptic knob

C. Neuro-muscular junction

D. Multipolar neuron

Answer:



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52. Name the gaps in the myelin sheath between adjacent Schwann cells

A. Nodes of Ranvier

B. Nodes of axon

C. Nodes of cyton

D. Nodes of dendrites

Answer:



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53. Neurons that have many processes with one axon and two or more dendrites

A. Multipolar

B. Bipolar

C. Unipolar

D. Polar

Answer:



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54. Neurons that have two processes with one axon and one dendrite

A. Multipolar

B. Bipolar

C. Unipolar

D. Polar

Answer:



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55. Neurons that have a single short process and one axon

A. Polar

B. Bipolar

C. Unipolar

D. Multipolar

Answer:



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56. Neurons located in the ganglia of cranial and spinal nerves

A. Polar

B. Bipolar

C. Unipolar

D. Multipolar

Answer:



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57. Which is the electric potential difference across the plasma membrane of a resting neuron?

A. Bipolar neurons

B. Unipolar neurons

C. Intracellular neurons

D. Resting membrane potential

Answer:



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58. Match the following with correct answer

- | | |
|----------------------------|---|
| 1. Leakage channels | - a) Action membrane potential |
| 2. Ligand-gated channels | - b) Mechanically gated channels |
| 3. Voltage-gated channels | - c) Chemically gated channels |
| 4. Transmission of impulse | - d) Ionic channels that remain open all time |

A. 1-a 2-b 3-c 4-d

B. 1-d 2-c 3-b 4-a

C. 1-a 2-b 3-d 4-c

D. 1-b 2-c 3-a 4-d

Answer:



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59. Ionic channels that remain open all time

A. Leakage channels

B. Ligand gated channels

C. Voltage gated channels

D. Ionic potential

Answer:



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60. Where are unipolar neurons situated?

A. Spinal cord

B. Retina

C. Inner ear

D. Brain

Answer:



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61. Where are bipolar neurons situated?

A. Cranial nerves

B. Spinal nerves

C. Skin

D. Olfactory lobes of brain

Answer:



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62. Fluid found outside the axolemma

- A. Extracellular fluid
- B. Intracellular fluid
- C. Cellular fluid
- D. Nurilemma

Answer:



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63. The ionic gradient across the resting membrane is maintained by ATP driven

- A. Sodium-potassium pump
- B. Depolarization
- C. Threshold potential
- D. All or none principle

Answer:



64. Which of the following phase is not included in action membrane potetial

- A. Depolarization
- B. Repolarization
- C. Hypopolarization
- D. Hyperpolarization

Answer:



65. The reversal of electric charge is called

- A. Depolarization
- B. Repolarization
- C. Hypopolarization
- D. Hyperpolarization

Answer:



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66. During hyperpolarization, K^+ ion gates are more permeable to K^+ even after reaching the threshold level as it closes slowly. It is called as

- A. Resting state
- B. Lazygates
- C. Nodes of Ranvier
- D. Saltatory conduction

Answer:



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67. The action potential occurs in response to a threshold stimulus, but not at sub threshold stimuli. What is the name of the principle involved ?

- A. Lazy gates
- B. All or none principle
- C. Spike potential
- D. Saltatory conduction

Answer:



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68. The voltage gates Na^+ and K^+ channels are concentrated at the

A. Saltatory conduction

B. Lazy gates

C. Nodes of Ranvier

D. All or none principle

Answer:



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69. Junction between two neurons

- A. Nodes of Ranvier
- B. Axons
- C. Saltatory conduction
- D. Synapse

Answer:



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70. Which is called as falling phase?

- A. Repolarization
- B. Depolarization
- C. Hyperpolarization
- D. Hypopolarization

Answer: A



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71. The membrane potential return to its original resting state when K^+ ions channels close completely.

- A. Repolarization
- B. Depolarization
- C. Hyperpolarization
- D. Nodes of Ranvier

Answer:



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72. The axon terminals contain synaptic vesicles filled with

- A. Neurons
- B. Neurotransmitters
- C. Synaptic cleft
- D. Synaptic vesicles

Answer:



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73. In the neurilemma, the synaptic vesicles release neurotransmitters into the synaptic cleft by

A. Exocytosis

B. Endocytosis

C. Inhibitory

D. Excitatory

Answer:



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74. _____ acts as a command and control system.

A. Brain

B. Heart

C. Kidney

D. Lungs

Answer:



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75. Small gap between pre and post synaptic membranes is called

- A. Synapse
- B. Synaptic cleft
- C. Synaptic vesicle
- D. Exocytosis

Answer:



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76. First neuron involved in synapse formation

- A. Pre-synaptic neuron
- B. Post-synaptic neuron
- C. Exocytosis
- D. Synaptic cleft

Answer:



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77. Second neuron involved in the synapse formation

- A. Pre-synaptic neuron
- B. Post-synaptic neuron
- C. Neurotransmitters
- D. Synaptic cleft

Answer:



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78. Central neural system includes

- A. Brain and heart
- B. Brain and lungs
- C. Brain and spinal cord
- D. None

Answer:



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79. Outer layer of brain

A. Dura mater

B. Arachnoid mater

C. Subdural space

D. Pia mater

Answer:



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80. Inner most layer in brain

A. Dura mater

B. Arachnoid mater

C. Pia mater

D. Cerebrum

Answer:



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81. Which is called as seat of intelligence?

A. Cerebrum

B. Cerebellum

C. Diencephalon

D. Prosencephalon

Answer:



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82. Superficial region of the cerebrum

A. Diencephalon

B. Dura mater

C. Cerebral cortex

D. Gyri

Answer:



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83. Which is known as fore brain?

A. Cerebrum

B. Diencephalon

C. Cerebral cortex

D. (a) and (b)

Answer:



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84. Median thin layer of brain

- A. Dura mater
- B. Pia mater
- C. Arachnoid mater
- D. Subarachnoid mater

Answer:



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85. The cerebral hemispheres are connected by a tract of nerve fibres called

- A. Cerebrum
- B. Cerebellum
- C. Corpus callosum
- D. Association areas

Answer:



86. The areas other than sensory and motor areas in cerebral cortex are called

- A. Cerebrum
- B. Dissociation areas
- C. Corpus callosum
- D. Association areas

Answer:



87. _____ forms the roof of the diencephalon.

A. Epithalamus

B. Choroid plexus

C. Pineal body

D. Melatonin

Answer:



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88. The folds on the surface of the cerebrum are called

A. Gyri

B. Sulcus

C. Fissures

D. Grooves

Answer:



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89. The surface of the cerebrum shows many shallow grooves called

A. Gyri

B. Sulci

C. Fissures

D. Dendrites

Answer:



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90. Which regulates sleep wake cycle

A. Epithalamus

B. Indundibulum

C. Pineal body

D. Melatonin

Answer:



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91. Which acts as a nerve tract between cortex and diencephalon

A. Cortex

B. Medulla

C. Pineal body

D. Corpus callosum

Answer:



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92. Which acts as a satiety centre?

A. Hypothalamus

B. Limbic system

C. Brain stem

D. Thalamus

Answer:



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93. It acts as a reflex centre for vision and hearing

A. Corpora quadrigemina

B. Cerebellum

C. Pons varolii

D. Medulla oblongata

Answer:



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94. the_____is the second largest part of the brain.

- A. Cerebrum
- B. Cerebellum
- C. Pons varolii
- D. Medulla

Answer:



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95. Lateral ventricles communicate with the narrow third ventricle in diencephalon through an opening called

- A. Septum pellucidum
- B. Interventricular foramen
- C. CSF
- D. Cerebral aqueduct

Answer:



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96. _____ is a network of blood capillaries from cerebrospinal fluid

- A. Cerebral aqueduct
- B. Septum pellucidum
- C. Choroid plexus
- D. Foramen of monro

Answer:



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97. Third ventricle is connected with fourth ventricle in the hind brain through a canal called

- A. cerebral aqueduct
- B. Septum pellucidum
- C. Choroid plexus
- D. Foramen of monro

Answer:



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98. The thick bundle of elongated nerve roots within the lower vertebral canal is called

- A. Choroid plexus
- B. Cerebral aqueduct
- C. Cauda equina
- D. Septum pellucidum

Answer:



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99. Functional nervous structure between the brain and effector organs.

A. Spinal cord

B. Reflex arc

C. Pons

D. Medulla

Answer:



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100. The pathway followed by a nerve impulse to produce a reflex action

A. Spinal cord

B. Neuron

C. Reflex arc

D. Unconditioned reflex

Answer:



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101. Blinking of eye when a dust particle fall into it is an example of

- A. Conditioned reflex
- B. Unconditional reflex
- C. Reflex arc
- D. Reflex action

Answer:



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102. Pavlov did his classical conditioning experiment in a

A. Cat

B. Dog

C. Bat

D. Cow

Answer:



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103. Which is the sensory structure that responds to a specific stimulus?

A. Sensory receptor

B. Sensory neurons

C. Interneuron

D. Motor neuron

Answer:



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104. Which is an inborn reflex for an unconditioned stimulus

- A. Unconditioned reflex
- B. Conditioned reflex
- C. Cerebral cortex
- D. Receptor

Answer:



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105. Which is a response to the stimulus that has been acquired by learning

A. Unconditioned reflex

B. Conditioned reflex

C. Cerebral cortex

D. Receptor

Answer:



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106. The conditioned reflex was first demonstrated by

A. Robert

B. Pavlov

C. vagus

D. Niechel

Answer:



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107. _____ controls conditioned reflex

A. Cerebral cortex

B. Spinal cord

C. Medulla

D. Pons

Answer:



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108. _____ helps in rotation of eye ball.

- A. Abducens nerve
- B. Auditory nerve
- C. Vagus nerve
- D. hyoglossal nerve

Answer:



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109. Glossopharyngeal neerve function as

- A. Rotation of eyeball
- B. Speech and swallowing
- C.
- D. Functioning of facial parts

Answer:



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110. Total CSF volume in adult is

A. 100 ml

B. 150 ml

C. 200 ml

D. 500 ml

Answer:



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111. How much ml of CSF is formed daily?

A. 150

B. 400

C. 250

D. 500

Answer:



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112. There are _____ pair of spinal nerves.

A. 30

B. 31

C. 40

D. 41

Answer:



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113. Match and find the correct species.

. Match and find the correct series

- | | |
|---------------------|---------------|
| 1. Cervical nerves | - a) 5 pairs |
| 2. Thoracic nerves | - b) 5 pairs |
| 3. Lumbar nerves | - c) 1 pair |
| 4. Sacral nerves | - d) 8 pairs |
| 5. Coccygeal nerves | - e) 12 pairs |

A. 1-d 2- 3-a 4-b 5-c

B. 1-e 2-c 3-b 4-d 5-a

C. 1-a 2-b 3-c 4-d 5-e

D. 1-e 2-d 3-c 4-b 5-a

Answer:



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114. How many pairs of cranial nerves are there in Peripheral Nervous System?

A. 18

B. 16

C. 12

D. 31

Answer:



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115. Part of peripheral neural system associated with voluntary control of body movements via skeletal system

- A. Somatic neural system
- B. Autonomic neural system
- C. Sympathetic neural system
- D. Parasympathetic system

Answer:





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116. Neuron whose cell body is in the brain or spinal cord.

- A. Autonomic neural system
- B. Postganglionic neuron
- C. Preganglionic neuron
- D. Sympathetic neuron

Answer:



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117. Neuron that conveys nerve impulses from autonomic ganglia to visceral effector organs.

- A. Autonomic ganglion
- B. Postganglionic neuron
- C. Preganglionic neuron
- D. Autonomic neural system

Answer:



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118. It is considered as “The Rest and Digest system”.

A. Parasympathetic neural system

B. Sympathetic neural system

C. Autonomic neural system

D. Somatic neural system

Answer:



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119. Its is considered as flight or fight system

- A. Sympathetic neural system
- B. Parasympathetic neural system
- C. Peripheral neural system
- D. Autonomic neural system

Answer:



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120. The sebaceous glands at the base of eyelashes are calledglands.

A. Lacrymnal glands

B. Ciliary glands

C. Exteroceptors

D. Interoceptors

Answer:



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121. Glands responsible for secreting tears are

.....

A. Ciliary

B. Sebaceous

C. Lacrymal

D. None

Answer:



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122. Tears contains

A. Salt

B. Mucus

C. Lysozyme

D. All the above

Answer:



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123. Receptors that are located in the visceral organs and blood vessels.

- A. Interoceptors
- B. Exteroceptors
- C. Proprioceptors
- D. All the above

Answer:



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124. Receptors that are sensitive to external stimuli

- A. Interoceptors
- B. Exteroceptors
- C. Proprioceptors
- D. All the above

Answer:



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125. Which channel drains out the excess of aqueous humor at the junction of sclera and the cornea.

- A. Canal of Schlemm
- B. Choroid
- C. Intraocular pressure
- D. None

Answer:



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126. Coloured portion of the eye lying between the cornea and lens.

A. Sclera

B. Choroid

C. Retina

D. Iris

Answer:



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127. Inner most layer of eye.

A. Cone

B. Rod

C. Iris

D. Retina

Answer:



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128. Smooth muscle present in the ciliary body is called

- A. Ciliary muscle
- B. Aqueous humor
- C. Sphincter pupillae
- D. Dilator pupillae

Answer:



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129. The ability of the eyes to focus objects at varying distances is called

- A. Retina
- B. Canal of schlemm
- C. Ciliary body
- D. Accommodation

Answer:



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130. Hypermetropia is also known as

- A. Long sightedness
- B. Short sightedness
- C. Catract
- D. Glaucoma

Answer:



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131. Myopia is also known as

A. Long sightedness

B.

C. Catract

D. Glaucoma

Answer:



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132. Yellow flat spot present at the centre of posterior region of the retina is called

- A. Macula lutea
- B. Fovea centralis
- C. Aqueous humor
- D. Retinal

Answer:



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133. Small depression present in the centre of yellow spot in retina is

- A. Macula lutea
- B. Fovea centralis
- C. Blind spot
- D. Opsin

Answer:



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134. Derivative of vitamin -A

A. Opsin

B. Retinal

C. Macula lutea

D. None

Answer:



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135. Which lens are used to correct presbyopia

A. Concave

B. Convex

C. Hypermetropic

D. Myopic

Answer:



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136. Wax producing glands present in the external auditory meatus

- A. Ciliary gland
- B. Ciliary body
- C. Ceruminous gland
- D. Tympanic gland

Answer:



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137. Due to the changes in nature of protein, the lens becomes opaque is

- A. Cataract
- B. Eustachian tube
- C. Perilymph
- D. Vestibule

Answer:



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138. It is a small air filled cavity in the temporal bone

A. Tympanic cavity

B. Pinna

C. External ear

D. Ear drum

Answer:



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139. Tube that connects middle ear cavity with pharynx

A. Eustachian tube

B. Vestibule tube

C. Ear ossicles

D. Endolymph

Answer:



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140. Match and find the correct series

- | | |
|----------------------|-------------------|
| 1. Malleus | - a) Anvil bone |
| 2. Incus | - b) Ear drum |
| 3. Stapes | - c) Hammer bone |
| 4. Tympanic membrane | - d) Stirrup bone |

A. 1-c 2-b 3-a 4-d

B. 1-c 2-a 3-d 4-b

C. 1-d 2-c 3-b 4-a

D. 1-a 2-b 3-c 4-d

Answer:





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141. The scala vestibuli and scala media are separated by a membrane called

- A. Endolymph
- B. Stereocilia
- C. Basilar membrane
- D. Tectorial membrane

Answer:



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142. each branch at the distal end of the axon terminates into a bulb like structure called

- A. Endolymph
- B. Stereocilia
- C. Organ of corti
- D. Cochlea

Answer:



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143. Hair like structures protruding from the apical part of each hair cell is known as

- A. Stereocilia
- B. Eustachian rule
- C. Scala vestibuli
- D. Cochlea

Answer:



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144. The intensity of sound is measured in

A. Wavelength

B. Intensity

C. Decibels

D. Frequency

Answer:



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145. Defect may be in the organ of cortior
auditory nerve

A. Sensory-neural deafness

B. Otoliths

C. crista ampullairs

D. Cehmoreceptors

Answer:



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146. Organ of balance located in the inner ear next to the cochlea

- A. Vestibular system
- B. Otoliths
- C. Proprioception
- D. Crista ampullaris

Answer:



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147. Small calcareous particles present in otolithic membrane

A. Ampulla

B. Maculae

C. Otoliths

D. Organ of corti

Answer:



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148. Each ampulla has a sensory area known as

A. Otoliths

B. Maculae

C. Vestibular system

D. Crista ampullaris

Answer:



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149. The receptors of taste and smell are called

.

- A. Interoceptors
- B. Chemoreceptors
- C. Gustatory receptor
- D. Exteroceptors

Answer:



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150. Tongue is provided with small projections called

A. Basal cells

B. Papillae

C. Maculae

D. Ampulla

Answer:



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151. Teste buds consists of ____ epithelial cells

- A. 50-100
- B. 150-200
- C. 150-350
- D. 50-400

Answer:



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152. Sensitive portion of the gustatory cells

A. Gustatory epithelial cells

B. Gustatory hairs

C. Basal epithelial cells

D. Repairing cells

Answer:



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153. Largest sense organ

A. Skin

B. Tongue

C. Nose

D. Ear

Answer:



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154. Large egg shaped receptors found scattered deep in the dermis

A. Meissner's corpuscles

B. Hair follicle receptors

C. Pacinian corpuscles

D. Tactile Merkel's disc

Answer:



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155. Small light pressure receptors found beneath the epidermis in dermal papillae

- A. Pacinian corpuscles
- B. Meissner's corpuscles
- C. Krause and bulbs
- D. tactile merkel disc

Answer:



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156. which lie in the dermis respond to continuous pressure.

- A. Krause end bulbs
- B. Tactile Merkel's disc
- C. Ruffini endings
- D. Pacinian corpuscles

Answer:



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157. are thermoreceptors that sense temperature.

- A. Krause end bulbs
- B. Ruffini endings
- C. Tactile Merkel's disc
- D. Hair follicle receptors

Answer:



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158. Light touching receptors lying in the deeper layer of epidermis

A. Meissner's corpuscles

B. Tactile Merkel's disc

C. Pacinian corpuscles

D. Ruffini endings

Answer:



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159. Vitiligo is also known as

- A. Leucoderma
- B. Leukemia
- C. Root hair plexus
- D. Meissner's corpuscles

Answer:



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160. Conscious awareness of changes in external or internal environment

A. Sensation

B. Chemoreceptors

C. Vestibular system

D. Otoliths

Answer:



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161. The ability to sense stimuli arising within the body regarding position, motion and equilibrium

A. Proprioception

B. Interception

C. Extrareception

D. All the above

Answer:



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162. Which of the following pairings is correct ?

A. Sensory nerve-afferent

B. Motor nerve- afferent

C. Sensory nerve- ventral

D. Motor nerve-dorsal

Answer:



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163. Examine the diagram of the two cell types A and B given below and select the correct option.



A. Cell-A is the rod cell found evenly all over retina

B. Cell-A is the cone cell more concentrated in the fovea centralis

C. Cell-B is concerned with colour vision in bright light

D. Cell-A is sensitive to bright light intensities

Answer:



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164. Assertion : In membrane the concentration of Na^{++} and K^{+} , and proteins generates action potential.

Reason : To maintain the unequal distribution of Na^{+} and K^{+} , the neurons use electrical energy.

A. Both Assertion and Reason are true and Reason is the correct explanation of the Assertion.

B. Both Assertion and Reason are true but the Reason is not the correct explanations of Assertion.

C. Assertion is true, but Reason is false.

D. Both Assertion and Reason are false.

Answer:



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165. The respiratory centre is present in the

A. Medulla oblongata

B. Hypothalamus

C. Cerebellum

D. Thalamus

Answer:



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166. Match the following human spinal nerves in column-I with their respective number in

column-II and choose the correct option.

	Column - I		Column - II
P	Cervical nerves	(i)	5 pairs
Q	Thoracic nerve	(ii)	1 pair
R	Lumbar nerve	(iii)	12 pairs
S	Coccygeal nerve	(iv)	8 pairs

A. (P-iv), (Q-iii), (R-i), (S-ii)

B. (P-iii), (Q-i), (R-ii), (S-iv)

C. (P-iv), (Q-i), (R-ii), (S-iii)

D. (P-ii), (Q-iv) (R-i), (.S-iii)

Answer:



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167. The abundant intracellular cation is



Answer:



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168. When the potential across the axon membrane is more negative than the normal resting potential the neuron is said to be state of

- A. Depolarization
- B. Hyperpolarization
- C. Repolarization
- D. Hypopolarization

Answer:



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169. Longest cell in the human body

- A. Neurons
- B. Axons
- C. Dendrites
- D. Nissil's granules

Answer:



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170. Name the cell organelle which is not seen in the axons.

A. Mitochondria

B. Golgi apparatus

C. Centriole

D. Endoplasmic reticulum

Answer:



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171. The pathway followed by a nerve impulse to produce a reflex action

A. Spinal cord

B. Neuron

C. Reflex arc

D. Unconditioned reflex

Answer:



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172. Why is the blind spot called so ?



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173. Sam's optometrist tells him that his intraocular pressure is high. What is this condition called and which fluid does it involve ?



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174. The action potential occurs in response to a threshold stimulus, but not at sub threshold stimuli. What is the name of the principle involved ?



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175. Can you state why some areas of the brain and spinal cord are gray and some are white?



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176. What is meant by sulcus and gyrus.



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177. Draw the diagram of brain stem and label the parts.



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178. What is choroid plexus?



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179. What is maculae lutea?



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180. What is tectorial membrane?



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181. Why are we getting running nose while crying ?





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182. Pleasant smell fo food urged Ravi to Rush into the kitchen. Name the parts of the brain involved in the identification of food and emotional responses to odour.



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183. Label the parts of the neuron.



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184. What is the ANS controlling centre.



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185. Classify receptors based on type of stimuli.



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186. What are the functions of neuroglia ?



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187. Write a note on saltatory conduction.



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188. The body maintains a stable condition even when the outside environment changes.

How?



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189. What are the three cranial meninges?



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190. The sense of taste is considered to be the most pleasurable of all senses.

Describe the structure of the receptor involved with a diagram.



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191. Describe the structures of olfactory receptors.



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192. The choroid plexus secretes cerebrospinal fluid. List the function of it.



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193. Tabulate the difference between sympathetic and para sympathetic neural system.



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194. Explain the mechanism of hearing.



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195. Explain the structure of an ear.



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196. Tabulate the Cranial nerves and its function.



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