BIOLOGY

BOOKS - PSEB

NEURAL CONTROL AND COORDINATION

Exercise

1. Draw labelled diagrams of the following:

Brain

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2. Briefly describethe structure of the following: Eye

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3. Briefly describe the structure of the following: Ear

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4. Compare the following: Central neural system (CNS) and Peripheral neural system (PNS)

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5. Compare the following: Resting potential and action potential

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6. Compare the following: Choroid and retina

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7. Explain the following processes: Polarisation of the membrane of a nerve fibre

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8. Explain the following processes: depolarisation of the membrane of a nerve

fibre

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9. Explain the following processes: Transmission of a nerve impulse across a chemical synapse

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10. Draw labelled diagrams of the following: Neuron

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11. Draw labelled diagrams of the following:

Brain

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12. Draw labelled diagrams of the following:

Eye

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13. Draw labelled diagrams of the following: Ear

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14. Write short notes on the following: Neural coordination

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15. Write short notes on the following:

Forebrain

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16. Write short notes on the following:

Midbrain

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17. Write short notes on the following: Hindbrain

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18. What is the fucntion of retina in human eye?

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19. Write short notes on the following: Ear ossicles

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20. Give a brief account of : Mechanism of synaptic transmission

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21. Give a brief account of : Mechanism of vision

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22. Give a brief account of : Mechanism of hearing

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23. Answer briefly: How do you preceive the colour of an object?

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24. Answer briefly: Which part of our body help us in maintaining the body balance?

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25. Answer briefly: How does the eye regulation the amount of light that falls on the retina.

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26. Explain the following: Role of Na^+ in the generation of action potential.

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27. Explain the following: Mechanism of generation fo light-induced impulse in the retina.

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28. Define nerve impulse. Which structure in a neuron helps to conduct a nerve impulse,towards the cell body?

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29. Differentiate between: Myelinated and non-myelinated axons

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30. Differentiate between: Dendrites and axons

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31. Differentiate between: Rods and cones

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32. Differentiate between: Thalamus and Hypothalamus

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33. Differentiate between: Cerebrum and Cerebellum

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34. Answer the following: Which part of the ear determines the pitch of a sound?

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35. Answer the following: Which part of the human brian is the most develped?

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36. Answer the following: Which part of our central neural system acts as a master clock?

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37. The region of the vertebrate eye, where the optic nerve passes out of the retina, is called the :

A. fovea

B. iris

C. blind spot

D. optic chiasma

Answer:

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38. Distinguish between: afferent neurons and efferent neurons

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39. Distinguish between: impulse conduction in a myelinated never fibre and unmyelinated never fiber

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40. Distinguish between: aqueous humor and vitreous humor

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41. Distinguish between: blind spot and yellow spot

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42. Distinguish between: cranial nerves and spinal nerves.

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