



#### **BIOLOGY**

## **NCERT - NCERT BIOLOGY(ENGLISH)**

# NATURAL CONTROL AND COORDINATION

Exercise

1. Briefly describe the structure of the

following:

- (a) Brain
- (b) Eye
  - (c) Ear



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- **2.** Compare the following :
- (a) Central nerual system (CNS) and Peripheral neural system (PNS).
- (b) Resting potential and actions potential .
- (c) Choroid and retina.



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- 3. Explain the following processes:
- (a) Polarisation of the membrane of a nerve fibre.
- (b) Depolaristion of the membrance of a nerve fibre.
- (c ) Conduction of nerver impulse along a nerve fibre.
- (d) Transmission of a berve impulse across a chemical synapse.



- **4.** Draw labelled diagrams of the following :
- (a) Neuron
- (b) Brain
- (c) Eye
- (d) Ear



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- **5.** Write short notes on the following:
- (a) Neural coordination
- (b) Forebrain
- (c) Midbrain

(d) Hindbrain (e) Retina (f) Ear ossicles (g) Cochlea (h) Organ or Corti (i) Synapse **View Text Solution** 6. Give a brief account of: (a) Mechanism of synaptic transmission

- (b) Mechanism of vision
- (c) Mechanism of hearing



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#### 7. Answer briefly:

- (a) How do you perceive the colour of an object?
- (b) Which part of our body helps us in maintaining the body balance?
  - (c) How does the eye regulate the amount of
- light that falls on the retina.

#### 8. Explain the following:

- (a) Role of  $Na^{\,+}\,$  in the gneration of action potential.
- (b) Mechanism of generation of light- induced inpulse in the retina .
- (c ) Mechanism through which a sound produces a nerve impulse in the inner ear .



- 9. Differentiate between:
- (a) Myelinated and non-myelinated axons (b)

Dendrites and axons

(c ) Rods and cones (d) Thalamus and

Hypothalamus

(e) Cerebrum and Cerebellum



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- 10. Answer the following:
- (a) Which part of the ear determines the pitch

of a sound?

(b) Which part of the human brain is the most developed?

(c ) Which part of our central neural system acts as a master clock?



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11. 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 chaisma



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- **12.** Distinguish between:
- (a) afferent neurons and efferent neurons
- (b) impulse conduction in an myelinated nerve
- fibre and unmyelinated nerve fibre
- (c) aqueous humour and vitreous humor

- (d) blind spot and yellow spot
- (f) cranial nerves and spinal nerves .

