

9. CONTROL AND COORDINATION

MULTIPLE CHOICE QUESTIONS (1 MARK EACH)

- 1 Diffused type of nervous system is seen in _____.
A Hydra
B *Planaria*
C Cockroach
D Earthworm
- 2 Planaria shows _____ type of nervous system.
A nerve net.
B ladder
C ganglionated
D brain
- 3 In order for a stimulus to be effective, the stimulus must have a minimum intensity called _____ stimulus.
A subliminal
B depolarised
C threshold
D polarised
- 4 The resting potential of a neuron is _____.
A 30 millivolts
B -30 millivolts
C 70 millivolts
D -70 millivolts
- 5 The third ventricle of brain is connected to the fourth ventricle of brain through _____.
A Foramen of Monro
B Duct of Sylvius
C Metacoel
D Eustachian tube
- 6 Degeneration of dopamine producing neurons in the CNS causes _____ disease.
A ADHD
B Alzheimer's
C Parkinson's
D Fever
- 7 _____ is a mineralocorticoid secreted by Adrenal gland.
A Aldosterone
B Cortisol
C Corticoid
D Androgen
- 8 _____ has an important role in the development of immune system by maturation of T lymphocytes.
A Thyroxine
B Thymosin
C Aldosterone
D Parathormone
- 9 Hyper secretion of growth hormone in childhood causes _____.
A Acromegaly
B Dwarfism
C Gigantism
D Goitre
- 10 _____ shows gastric contractions and inhibits the secretion of gastric juice.
A Gastrin

- B Secretin
C **Entero- gastrone**
D Inhibin

VERY SHORT ANSWER TYPE QUESTIONS(1 MARK)

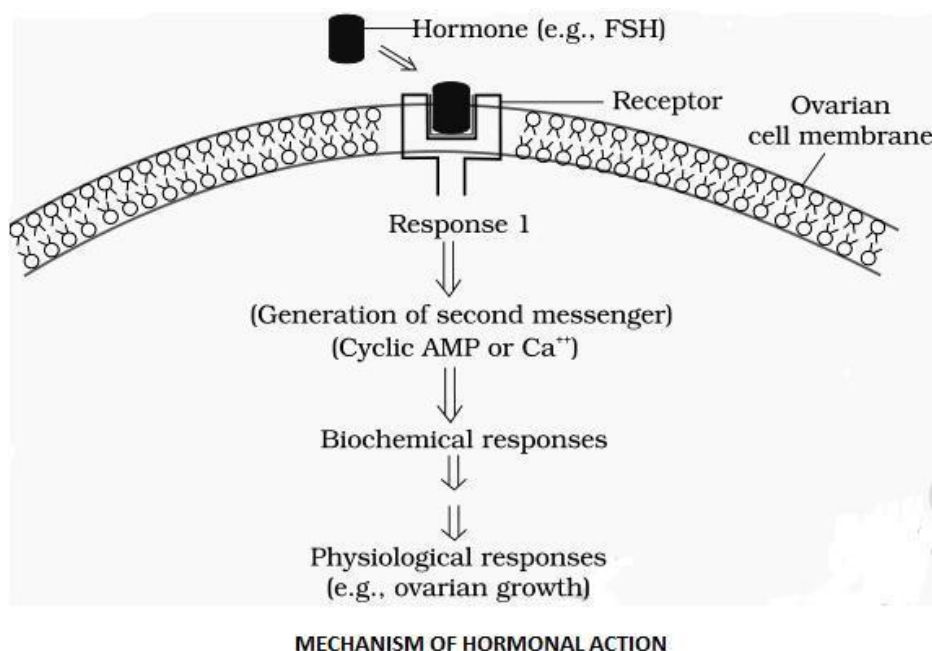
- 1 Which cells of PNS secrete myelin sheath around the nerves?
- 2 Give function of astrocytes in nervous system.
- 3 What is the covering of nerve fascicule called?
- 4 How electrical synapse differs from chemical synapse?
- 5 What is the function of red nucleus?
- 6 Define Saltatory conduction.
- 7 Name the hormone secreted by Pars intermedia in lower vertebrates.
- 8 Which disease is caused by hyper secretion of Glucocorticoids?
- 9 Which organ acts a temporary endocrine gland in females?
- 10 Give one role of hormone therapy.
11. Define reflex arc.
- 12 What is monosynaptic reflex?
13. Which exteroceptors is located in semi-circular canals?
- 14 Which receptor denotes the change in B.P.?
15. Which is the outermost layer of human eye?
- 16 Which cells of retina are responsible for scotopic vision?
- 17 Name the structure that connects the middle ear to pharynx.
- 18 What is cochlea?
- 19 Name the membrane that covers the cornea?

SHORT ANSWER TYPE QUESTIONS(SA-I) (2 MARKS)

- 1 'Injury to the medulla oblongata causes sudden death' Explain.
- 2 Which two hormones are responsible for the regulation of calcium and phosphorus in the blood?
- 3 Describe any two hormones produced by the ovaries
- 4 Name the glucocorticoid used in treatment of allergy and why?
- 5 Which hormone is secreted by Pineal gland? What is its function?
- 6 Sketch and label T.S of Spinal cord.
- 7 Sketch and label V.S of Pituitary gland.
- 8 Explain any two exteroceptors with location and function.
- 9 Explain baroreceptors with their location and function.
- 10 Write a note on lens part of human eye.
- 11 Draw a well labelled diagram of Semi-circular canal to show cochlea and membranous labyrinth.
12. Write a note on rod cells and cone cells.

SHORT ANSWER TYPE QUESTIONS(SA-II) (3 MARKS)

- 1 Write a note on meninges of Brain.
- 2 Describe any three functions of hypothalamus.
- 3 Name three Mixed cranial nerves along with their numbers.
- 4 Distinguish between Cerebrum and Cerebellum.
- 5 Answer the questions after observing the diagram given below.



- 1) What acts as the first messenger?
- 2) Why can't hormones like catecholamines enter their target cells through plasma membrane?
- 3) Name the mode of hormone action shown in the diagram.

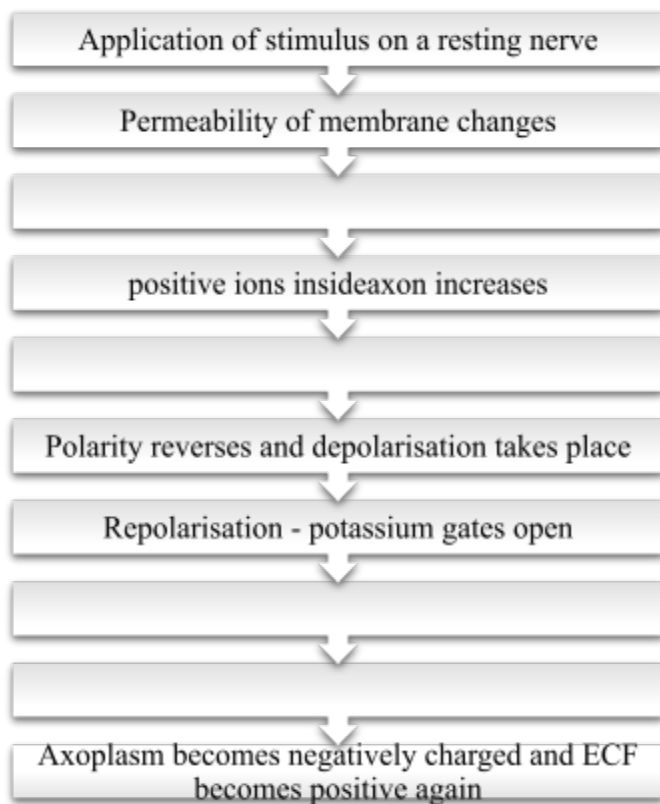
6 Complete the table based on disorders caused due to under secretion or over secretion of Thyroid gland.

Secretion	Adults	Children
Hypo secretion		
Hyper secretion		

- 7 Give the names of the hormones released by neurohypophysis.
A boy shows excessive thirst and micturition because of deficiency of a hormone secreted by neurohypophysis. Name the disease he is suffering from.
- 8 Differentiate between cranial reflex and spinal reflex.
- 9 Describe the structure of choroid / uvea.
- 10 Draw diagram of human eye showing pupil, vitreous humor, optic nerve, sclera, retina and choroid.

LONG ANSWER TYPE QUESTIONS(LA) (4 MARKS)

- 1 Describe the functional areas of Cerebrum.
- 2 Distinguish between Sympathetic and parasympathetic nervous system.
- 3 Describe any four hormones secreted by Adenohypophysis.
- 4 Write a note on the four different kinds of cell in Pancreas.
- 5 Complete the flowchart of the process of conduction of nerve impulse.



- 6 Describe the structure of human external ear.
7. Explain the structure of retina with the help of a labelled diagram.