EXERCISE

1. Afferent nerve fiber conducts impulse from :-
(1) C.N.S. to effector (2) Receptor to C.N.S.
(3) Receptor to effector (4) Effector to receptor

2. The nerves leading to the central nervous system are called :-
(1) Afferent (2) Efferent
(3) Motor (4) None

3. Unit of nervous system :-
(1) Neuron (2) Neuroglia
(3) Axon (4) Cyton

4. Integrative system in the body are :-
(1) Endocrine system (2) Nervous system
(2) Blood vascular system (4) Both 1 & 2

5. Rapid integration of the functional activities in human is acheieved by :-
(1) Nervous system (2) Endocrine system
(3) Blood (4) Muscular system

6. Dendrites are associated with which system ?
(1) Nervous system (2) Digestive system
(3) Muscular system (4) Blood vascular system

7. Intercellular communication in multicellular organism occurs through -
(1) Nervous system only
(2) Digestive system only
(3) Respiratory system only
(4) Both nervous and endocrine system

8. Synaptic vesicles are found in –
(1) presynaptic neuron
(2) post synaptic neuron
(3) synaptic cleft
(4) none of these

9. In a myelinated neuron, two adjacent myelin sheaths are separated by gaps called :
(1) nodes of Ranvier (2) synaptic cleft
(3) synaptic knob (4) neural plate

10. Nissl's granules are found in :
(1) liver cells (2) nerve cells
(3) kidney (4) heart

NERVE IMPULSE CONDUCTION

11. When a nerve fibers is stimulated the inside of the membrane becomes :-
(1) Filled with acetyl choline
(2) Negatively charged
(3) Positively charged
(4) Neutral

12. Nerve impulses are initiated by nerve fibers only when the membrane shall become more permeable to :-
(1) Adrenaline (2) Phosphorus
(3) Sodium ions (4) Potassium ions

13. When the axons membrane is positively charged outside and negatively charged inside, then the condition is known as :-
(1) Action potential
(2) Resting potential
(3) Active potential
(4) Differential potential

14. Depolarization of axolemma during nerve conduction takes place because of-
(1) Equal amount of Na^+ & K^+ move out across axolema
(2) Na^+ move inside
(3) More Na^+ outside
(4) None

15. In the resting state of the neural membrane, diffusion due to concentration gradients, if allowed, would drive :-
(1) K^+ and Na^+ out of the cell
(2) Na^+ into the cell
(3) Na^+ out of the cell
(4) K^+ into the cell

16. Repolarisation of Neuron is occured due to:-
(1) Influx of Na^+
(2) Influx of K^+
(3) Efflux of Na^+
(4) Efflux of K^+

17. Pre synaptic membrane is part of :
(1) Dendron
(2) Axon hillock
(3) Telodendria
(4) Soma

18. Corpus callosum connects :-
(1) Two cerebral hemisphere
(2) Two optic lobes
(3) Two olfactory lobes
(4) Optic chiasma

19. Outer most covering of brain is called :-
(1) Choroid (2) Duramater
(3) Piamater (4) Arachnoid

20. Piamater is :-
(1) Inner most meninge (2) Middle meninge
(3) Outer meninge (4) None

21. Which of the following is not a part of hind brain :–
(1) Medulla oblongata (2) Thalamus
(3) Cerebellum (4) Pons

22. Which of the following is the part of mid brain ?
(1) Cerebrum
(2) Diencephalon
(3) Corpora quadrigemina
(4) None of these

23. Which part of the brain regulates the body temperature, hunger and water balance :-
(1) Hypothalamus
(2) Infundibulum
(3) Medulla oblongata
(4) Pons veroli

24. Column 'I' list the parts of human brain and column 'II' lists the functions. Match the two columns and identify the correct choice from those given -

	Column I	**Column II**
(A)	Cerebrum	(i) Controls the pituitary
(B)	Cerebellum	(ii) Controls vision and hearing
(C)	Hypothalamus	(iii) Controls the rate of heart beat
(D)	Midbrain	(iv) Seat of intelligence
		(v) Maintains body posture

(1) A=v, B=iv, C=ii, D=i
(2) A=iv, B=v, C=ii, D=i
(3) A=v, B=iv, C=i, D=ii
(4) A=iv, B=v, C=i, D=ii

25. The correct sequence of meninges of brain from outside to inside is :
(1) duramater → arachnoid → piamater
(2) arachnoid → duramater → piamater
(3) piamater → duramater → arachnoid
(4) duramater → piamater → arachnoid

26. Which of the following is not an organ of the central nervous system :-
(1) Brain (2) Spinal cord
(3) Medulla oblongata (4) Vagus

27. Purely motor cranial nerve includes :-
(1) I, V, VII (2) I, II, IV
(3) III, IV, VI, XI (4) None of these

28. Number of spinal nerves in human :-
(1) 31 pairs (2) 32 pairs
(3) 12 pairs (4) 37 pairs

29. Stimulation of sympathetic nervous system causes :-
(1) Contriction of blood vessels and high blood pressure
(2) Dilation of bronchi & pupil
(3) Erection of hair
(4) All of the above

30. Which one of the following is not an effect of sympathetic nervous system –
(1) Dilation of pupil
(2) Inhibition of peristalsis
(3) Elevation of blood pressure
(4) Stimulation for saliva secreation

REFLEX ACTION

31. Reflex arc consists of :
(1) motor nerve
(2) sensory nerve
(3) both sensory and motor nerves
(4) none of these

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	**2**	**1**	**1**	**4**	**1**	**1**	**4**	**1**	**1**	**2**	**3**	**3**	**2**	**2**	**2**
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	**4**	**3**	**1**	**2**	**1**	**2**	**3**	**1**	**4**	**1**	**4**	**3**	**1**	**4**	**4**
Que.	31														
Ans.	**3**														