QB365 Question Bank Software Study Materials

Bio - Zoology - Neural Control and Coordination 50 Important 1 Marks Questions With Answers (Book Back and Creative)

11th Standard

Biology

Multiple Choice Question

Total Marks: 50

	$50 \times 1 = 50$
1)	Which structure in the ear converts pressure waves to action potentials?
	(a) Tympanic membrane (b) Organ of Corti (c) Oval window (d) Semicircular canal
2)	Which of the following pairings is correct?
	(a) Sensory nerve - afferent (b) Motor nerve - afferent (c) Sensory nerve - ventral (d) Motor nerve - dorsal
3)	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 ⁺⁺
4)	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
5)	Assertion(A): The imbalance in concentration of Na ⁺ , K ⁺ and proteins generates action potential. Reason(R): 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
5)	Which part of the human brain is concerned with the regulation of body temperature?
	(a) Cerebellum (b) Cerebrum (c) Medulla oblongata (d) Hypothalamus
7)	The respiratory centre is present in the
	(a) Medulla oblongata (b) Hypothalamus (c) Cerebellum (d) Thalamus
3)	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 nerves ii. 1 pair
	R. Lumbar nerves iii. 12 pairs
	S. Coccygeal nerves iv. 8 pairs
	(a) (b) (c) (d) P Q RS P QRS P QRS P QRS

The abundant intracellular cation is _____.

	(a) H+ (b) K+ (c) Na+ (d) Ca++
10)	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 axonal has a high concentration of Na ⁺ ions and low concentration of K ⁺ , in a resting neuron.
	(c) Ionic gradients 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 possess a negative a charge and its inner surface is positively charged
11)	All of the following are associated with the myeline sheath except.
	(a) Faster conduction of nerve impulses (b) Nodes of Ranvier forming gaps along the axon
	(c) Increased energy output for nerve impulse conduction (d) Saltatory conduction of action potential
12)	Several statements are given here in reference to cone cells Which of the following option indicates all correct statements for cone cells? Statements
	(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 the fovea of retina
	(a) (iii), (ii) and (i) (b) (ii), (iii) and (iv) (c) (i), (iii) and (iv) (d) (i), (ii) and (iv)
13)	Which of the following statement 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 involve four neurons
14)	When the potential across the axon membrane Is more negative than the normal resting potential, the neuron is said to be in a state of
	(a) Depolarization (b) Hyperpolarization (c) Repolarization (d) Hypopolarization
15)	Choose the wrong statement with regard to a dendron.
	(a) Dendrons are branched. (b) Dendron gives rise to Axon. (c) Dendron is associated with myelin sheath
	(d) Dendron arises from cell body.
16)	'Lazy gates' condition is seen in
	(a) Repolarization (b) Hyperpolarization (c) Depolarization (d) Synapse
17)	is the coloured portion of the eye.
	(a) Cornea (b) Iris (c) Pupil (d) Sclera
18)	Facial nerve is a nerve.
	(a) Sensory (b) Mixed (c) Motor (d) Efferent
19)	are involved in olfactory reflexes and emotional responses to odour.
	(a) Hypothalamus (b) Epithalamus (c) Infundibulum (d) Mammillary bodies
20)	is called the emotional brain.
	(a) Peripheral nervous system (b) Autonomic nervous system (c) Limbic system (d) Hypothalamus
21)	There are pairs of thoracic nerves.
	(a) 8 (b) 5 (c) 1 (d) 12
22)	are egg shaped receptors seen in the skin.

(a)	Meissner's corpuscles (b) Ruffini endings (c) Pacinian corpuscles (d) Hair follicle receptors
23)	Taste buds are shaped.
	(a) round (b) elongated (c) egg (d) flask
24)	Which is called the emotional brain?
	(a) Peripheral nervous system (b) Autonomic nervous system (c) Limbic system (d) Hypothalamus
25)	is the coloured portion of the eye.
	(a) Cornea (b) Iris (c) Pupil (d) Sclera
26)	is a membrane associated with the eye.
	(a) Tectorial membrane (b) Basilar membrane (c) Conjunctiva (d) Reisner's membrane
27)	Facial nerve is anerve.
	(a) Sensory (b) Mixed (c) Motor (d) Efferent
28)	Thelobe of the cerebrum controls visual processing.
	(a) Parietal (b) Frontal (c) Occipital (d) Occipital
29)	In a adult about ml of CSF is formed daily
	(a) 250ml (b) 150ml (c) 500ml (d) 200ml
30)	Mechanoreceptors are seen in
	(a) Tongue (b) Skin (c) Cochlea (d) Eye
31)	are egg shaped receptors seen in the skin.
	(a) Meissner's corpuscles (b) Ruffini endings (c) Pacinian corpuscles (d) Hair follicle receptors
32)	Cerebral cortex appears grey due to presence of
	(a) Myelinated neurons (b) Unmyelinated neurons (c) Multipolar neurons (d) Bipolar neurons
33)	Repairing of neural tissues is performed by
	(a) Neuroglia (b) Neurons (c) Basal nuclei (d) Interneurons
34)	How many Na^+ ions towards outside and K^+ ions towards inside when the cells are exchanged in sodium-potassium pump respectively?
	(a) 2,3 (b) 3,2 (c) 3,4 (d) 4,3
35)	What would be the threshold potential when enough Na ⁺ ions enter the cell during depolarization?
	(a) - 35 mV (b) - 45 mV (c) -55 mV (d) - 65 mV
36)	Due to the rapid influx of Na ⁺ ions the membrane potential shoots quickly upto how much mV?
	(a) +35 mV (b) -45 mV (c) +45 mV (d) +55 mV
37)	The largest cranial nerve is
	(a) Trigeminal nerve (b) Glossopharyngeal nerve (c) Hypoglossal nerve (d) Vestibular nerve
38)	Which is satiety center?
	(a) Hypothalamus (b) Diencephalon (c) Thalamus (d) Pineal body
39)	The quantify of CSF secreted per day is
	(a) 300 mI (b) 400 ml (c) 500 ml (d) 600 ml

40)	what is considered as the flight or fight system?
	(a) Autonomic system (b) Limbic system (c) Sympathetic neural system(SNS)
	(d) parasympathetic neural system(PNS)
41)	where does the Lacrymal and ceruminous gland lie?
	(a) Eyes, ears (b) Ears, eyes (c) Ears, nose (d) Tongue, skin
42)	Which of the following are highly vascularised in eyes?
	(a) Retina (b) sclera (c) cornea (d) choroid
43)	What is the disorder of eye found due to aging?
	(a) Cataract (b) Presbyopia (c) Astigmatism (d) Myopia
44)	How are myopia and hypermetropia rectified?
	(a) By wearing of convex lens & concave lens (b) By wearing of concave lens & convex lens
	(c) By wearing of cylindrical lens & concave lens (d) By wearing of cylindrical lens & convex lens
45)	The right path of light in our eye is
	(a) Cornea - > Lens - > Conjunctiva - > Retina (b) Cornea - > Conjunctiva - > Aqueous humor - > Lens - > Retina
	(c) Cornea - > Lens - > Aqueous humor - > Retina (d) Cornea - > Aqueous humor - > Lens - > Retina
46)	A cranial nerve with maximum branches in the body is
	(a) Auditory (b) Trigeminal (c) Vagus (d) Facial
47)	The canal that passes through the mid brain is called
	(a) cerebral aqueduct (b) cerebrum (c) cerebellum (d) foramen of Monro
48)	Vision in dimlight is called
	(a) sclerotic vision (b) photopic vision (c) blurred vision (d) scotopic vision
49)	Eighth cranial nerve of man is called
	(a) facial nerve (b) glasso-pharyngeal nerve (c) auditory nerve (d) optic nerve
50)	The respiratory rhythm centre is present in the
	(a) cerebrum (b) medulla oblongata (c) cerebellum (d) hypothalamus