

## MDCAT Biology Chapter 5 MCQ's Test

Sr	Questions	Answers Choice
1	Depolarization of neural membrane is due to	A. Influx of K <sup>+</sup> B. Efflux of Na <sup>+</sup> C. Influx of Na <sup>+</sup> D. None
2	Regulation of hunger and menstrual cycle is controlled by	A. Cerebrum B. Thalamus C. Hypothalamus D. Pons
3	Ventral root of the spinal nerve contains	A. Sensory nerve fibres B. Motor nerve fibres C. Mixed nerve fibres D. All
4	Which is not the function of glucagon	A. Glycogen hydrolysis B. Lipolysis C. Gluconeogenesis D. Protein synthesis
5	The hormone which is not secreted by anterior lobe of pituitary is	A. GH B. ICSH C. Prolactin D. TRF
6	A hormone which regulates glucose and minerals	A. Aldosterone B. Cortisol C. Insulin D. Corticosterone
7	The simplest reflex circuit includes ___ elements	A. 1 B. 2 C. 3 D. 4
8	Which of the following is correct about insulin	A. Inhibit glycogen hydrolysis B. Increase protein synthesis C. Increase glycolysis D. All
9	Part of brain that is involved in learning	A. Cerebrum B. Thalamus C. Cerebellum D. Pons
10	It acts on smooth muscles	A. Insulin B. Glucagon C. Cortisol D. Oxytocin
11	Which is responsible for hyperpolarization across membrane	A. Disturbing of charge B. Late closing of K <sup>+</sup> gates C. Influx of Na <sup>+</sup> D. Efflux of Na <sup>+</sup>
12	Decrease in progesterone level in blood stimulates the secretion of	A. Estrogen B. FSH C. Cortisol D. Oxytocin
13	They may also control some long term changes	A. Enzymes B. Neurons C. Hormones D. CNS
14	Which is correct about myelin sheath	A. It speeds up conduction B. It is found in all axons C. It is found in all dendrites D. It is proteinaceous only
15	These are the receptors which respond to the mechanical condition of internal organs	A. Nocireceptors B. Receptors of skin C. Receptors of stomach wall D. Receptors of eye

16	Myelin is made up of	A. Nucleoprotein B. Lipoprotein C. Glycolipids D. Glycoproteins
17	Which of the following organelle is not present in the synaptic knob	A. Mitochondria B. Vesicles C. Ribosomes D. Nucleus
18	The neuron which has central and peripheral branches is	A. Sensory neuron B. Motor neuron C. Associative neuron D. Relay neuron
19	Melanin pigment is produced under the hormone	A. ADH B. MSH C. STH D. TSH
20	Deficiency of sex hormones in adults results in	A. Sexual immaturity B. Mortality C. UTI D. sterility
21	Which is incorrect statement about spinal cord	A. White matter contains myelinated axons B. Grey matter contains non myelinated axons C. Grey matter contains cell bodies of sensory neurons D. Location of Peripheral nerve is near to spinal cord
22	Which is incorrect about resting membrane potential	A. Na <sup>+</sup> ions are ten folds higher outside B. 2 Na <sup>+</sup> move out for 3 K <sup>+</sup> move in C. K <sup>+</sup> ions are twenty folds higher inside D. Some k <sup>+</sup> ions leak out
23	Non-neural cells which encapsule the axon of neurons are	A. Microglial B. Microbodies C. Schwann cells D. Companion cells
24	The hormones which share common hypothalamic factor are	A. FSH and LH / ICSH B. ACTH and GH C. ICSH and LTH D. Prolactin and FSH
25	High calcium concentration in blood causes the stimulation of	A. Parathormone B. Calcitonin C. T <sub>3</sub> D. T <sub>4</sub>
26	Synaptic vesicles are present in synaptic knob that is part of	A. Post synaptic neuron B. Pre synaptic neuron C. Both neurons D. Second neuron
27	It is not a steroid hormone	A. Epinephrine B. Estrogen C. Progesterone D. 17 β hydroxy Testosterone
28	The receptors which are 27 times more abundant than cold receptors	A. Pressure receptors B. Pain receptors C. Heat receptors D. Light receptors
29	Nerve which carries impulses from CNS to effectors	A. Sensory B. Inter C. Motor D. Associative
30	Both meissner's and pacinian corpuscles have____ nerve endings	A. Spiral B. Encapsulated C. Free D. Deep
31	It brings about an increase in blood glucose level mainly by its production from glycogen	A. Insulin B. Glucagon C. Cortisol D. Aldosterone

32	Which of the following hormone affects the supply of testosterone	A. LH B. GH C. FSH D. Aldosterone
33	Motor neurons are	A. Multipolar B. Bipolar C. Unipolar D. Tripolar
34	Puffiness of hands is the character of	A. Graves disease B. Addison's disease C. Myxedema D. Cretinism
35	Hormones secreted by follicles in female	A. Estrogen B. Progesterone C. FSH D. Both a and b
36	Tiny shaped structure located deep between cerebral hemispheres	A. Thyroid gland B. Pituitary gland C. Pineal Gland D. Corpus callosum
37	It is incorrect statement about hormones	A. Endocrine secretion B. Initiate metabolism C. Organic D. Transported by blood
38	Which of the following is a messenger of both chemical and nervous coordination	A. Acetylcholine B. Dopamine C. Epinephrine D. Serotonin
39	Osteoporosis is caused by lack of	A. ADH B. Melanin C. Estrogen D. STH
40	It has duality in its functioning	A. Pituitary gland B. Pancreas C. Gonads D. Gut
41	Sharp rise in LH output due to estrogens is an example of	A. Negative feedback B. Positive feedback C. Primary feedback D. None
42	It does not produce any hormone	A. Anterior pituitary B. Posterior pituitary C. Pancreas D. None
43	In rats whose adrenal medulla has been removed surgically, the ability to with stand any stress situation such as cold	A. Is Enhanced B. Is diminished C. Remains unaffected D. Is finished
44	Diabetes insipidus is caused by	A. Lack of aldosterone B. Overproduction of ADH C. Lack of ADH D. Lack of insulin
45	STH promotes_____ after puberty	A. Protein synthesis B. Cell differentiation C. Metabolism D. Cell division
46	Primary sensory areas are present in	A. Cerebral cortex B. Cerebral medulla C. Cerebellum D. Medulla oblongata
47	It lacks a true dendron	A. Sensory neuron B. Motor neuron C. Associative neuron D. Relay neuron
48	Resting membrane potential of a neuron is	A. 50mV B. -70mv C. -80mV D. 90mV
49	Which hormone require 2nd messenger	A. Insulin B. Estrogen C. Progesterone D. Testosterone

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This is not the part of neuron

- A. Axon
- B. Dendron
- C. Nissl' granules
- D. Synapse