

CBME**DR.NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – MAY, 2022****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY – PAPER-II (SET-C)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions**

SECTION – I (MCQs- 20 MARKS)**1x20=20**

- 1) All of the following are true for denervation hypersensitivity EXCEPT
 - a. Plasma Noradrenaline level decreases in noradrenergic neuron denervation
 - b. Plasma Ach level decreases in cholinergic neuron denervation
 - c. Seen in smooth muscles
 - d. The Ach receptors appear all over sarcolemma
 - 2) The density of Na⁺ channels is maximum at
 - a. Soma
 - b. Nodes of Ranvier
 - c. Dendrite
 - d. Surface of myelin
 - 3) The length of muscle at which it develops maximal isometric active tension is called
 - a. Maximum length
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- b. Active length
- c. Initial length
- d. Resting length

4) Action potential

- a. Requires subthreshold stimulus
- b. Does not show All or none phenomenon
- c. Does not show decremental response
- d. Can be summated

5) Ovulation in a woman with normal health and cycle, occurs at

- a. Just after corpus luteal maturation
- b. During progesterone rise
- c. 14 days prior to start of menstrual bleeding
- d. Just before LH surge

6) Most distinguishing feature between skeletal muscle and smooth muscle is

- a. Tropomyosin
- b. Myosin
- c. Actin
- d. Troponin

7) Which of the following is not true about cardiovascular maternal changes in pregnancy

- a. Systolic pressure increases
- b. Heart rate increases
- c. Stroke volume increases

- 8) Which of the following is not true about testes
- a. Present in scrotal sac to have temperature less than body temperature
 - b. Contraction of dartos muscle elevates testes
 - c. Pampiniform plexus of blood vessels have counter current system to maintain temperature of testis
- 9) Which cell in CNS lay myelin sheath
- a. Stellate cells
 - b. Astrocytes
 - c. Basket cells
- 10) Which of the following is the main hormone for milk synthesis and secretion
- a. Progesterone
 - b. Estrogen
 - c. Oxytocin
- 11) The dorsal root of spinal cord is sensory and ventral root is motor. This is called:
- a. Rexed laminar principle
 - b. Weber-Fechner law
 - c. Muller's doctrine of nerve energy
- 12) Which is the best female contraceptive method after child birth, but desirous of further deliveries
- a. Tubectomy

- b. Diaphragms
- c. Intrauterine Device
- d. Oral Contraceptive Pills

13) Which of the following is the major neurotransmitter in the nigrostriatal pathway

- a. Noradrenaline
- b. Acetylcholine
- c. Serotonin
- d. Dopamine

14) Which of the following is the specific nucleus of thalamus

- a. Ventral posterolateral
- b. Midline
- c. Intralaminar
- d. Centro median

15) Purkinje cells from the cerebellum end on

- a. Cerebral cortex
- b. Extrapyramidal system
- c. Cranial nerve nuclei
- d. Deep cerebellar nuclei

16) Which of the following is not true about stretch reflex

- a. Also called myotatic reflex
- b. Afferent is Ib fiber
- c. Monosynaptic reflex

d. A branch of afferent terminates on inhibitory interneuron

17) The nucleus involved in formation of Papez circuit is

- a. Pulvinar
- b. Anterior nucleus of thalamus
- c. Intralaminar
- d. VPL nucleus

18) Which of the following is not a component of vestibular apparatus

- a. Utricle
- b. Sacculle
- c. Cochlea
- d. Semicircular canal

19) The processing of short term memory to long term memory is done (consolidation of long term memory occurs) in:

- a. Prefrontal cortex
- b. Hippocampus
- c. Neocortex
- d. Amygdala

20) All except one are under the control of hypothalamus

- a. Increase in heart rate during exercise
- b. Food intake
- c. Pituitary hormone (hypophyseal) regulation
- d. Temperature regulation

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