

CBME**DR.NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – JANUARY , 2023****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY – PAPER-II (SET-B)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions**

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

- 1) The sensation carried by the lateral spinothalamic tract is
 - a. Vibration
 - b. Fine touch
 - c. Warmth
 - d. Stereognosis
- 2) With respect to pain, a correct statement is:
 - a. Free nerve endings are the pain receptors
 - b. Visceral pain reaches the spinal cord through motor nerve fibers
 - c. Fibers carrying pain impulses synapse at nucleus cuneatus in the medulla
 - d. Pain is carried by dorsal column tract
- 3) Slow waves in visceral smooth muscle
 - a. Can initiate action potential
 - b. Are also called pacemaker waves

- c. Arise without an external stimulus
- d. All of the above

4) Which one of the following is NOT true about compound action potential in a mixed nerve

- a. Obeys all/none law
- b. First peak belongs to slowest conducting fiber
- c. Shows different peaks
- d. First peak belongs to fastest conducting fiber

5) Flushing, anhidrosis, ptosis, miosis, and absence of cellospinal reflex is seen in

- a. Brown Sequard Syndrome
- b. Cushing's reflex
- c. Tabes dorsalis
- d. Horner's syndrome

6) Which of the following neurotransmitters is used by the axons of substantia nigra neurons, which project to the caudate and putamen?

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

7) Which of the following neurons forms synaptic junctions with intrafusal fibers within the muscle spindles?

- a. Alpha motor neurons

- b. Pyramidal neurons
- c. Gamma motor neurons
- d. Granule cells

8) Which of the following is the correct Brodmann number for the primary motor cortex?

- a. 6
- b. 5
- c. 4
- d. 3

9) Blobs of visual cortex are associated with

- a. Color processing
- b. Orientation
- c. Saccadic eye movements
- d. Light perception

10) If red and green cones are stimulated equally, the color observed is

- a. Red
- b. Green
- c. Yellow
- d. Purple

11) Medial geniculate body is related to

- a. Vision
- b. Hearing
- c. Smell

d. Taste

12) The physiological basis for 'phantom limb' is

- a. Muller's law and Bell Magendie law
- b. Doctrine of specific nerve energies
- c. Muller's law and Law of Projection
- d. Bell Magendie law and Law of Projection

13) Hypocalcemia is caused due to

- a. Thyroxine
- b. Parathormone
- c. Cholecalciferol
- d. Calcitonin

14) Angiotensin is produced in

- a. Liver
- b. Kidney
- c. Hypothalamus
- d. Lungs

15) Melatonin is secreted from

- a. Hypothalamus
- b. Pineal gland
- c. Adrenal cortex
- d. Melanocytes

16) Hypoglycemic hormone is

- a. Catecholamine
- b. Somatostatin
- c. Cortisol
- d. Insulin

17) Estrogen is not produced by

- a. Pituitary
- b. Ovary
- c. Adrenal Cortex
- d. Placenta

18) Elasticity of cervical mucus is seen in:

- a. Proliferative stage
- b. Luteal stage
- c. Midcycle
- d. Menstruation

19) Mid-cycle rise of basal body temperature is due to

- a. LH
- b. FSH
- c. Estrogen
- d. Progesterone

20) Most powerful vasopressor is

- a. Renin

- b. Angiotensin II
- c. Aldosterone
- d. Cortisol

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