

CBME**DR. YSR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – DECEMBER, 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) Addison's disease is due to
 - a. Hyper-adrenalism
 - b. Hypo-adrenalism
 - c. Increased secretion of melanin
 - d. Increased adrenal androgenic
- 2) The trigger to initiate the contractile process in skeletal muscle is
 - a. Calcium binding to tropomyosin
 - b. Calcium binding to troponin
 - c. ATP binding to the myosin cross bridges
 - d. Potassium binding to myosin
- 3) Repolarization in a motor nerve is due to
 - a. Influx of chloride ion
 - b. Efflux of potassium ion
 - c. Efflux of calcium ion

d. Influx of sodium ion

4) The actin filaments are anchored to the

- a. H-line
- b. Z-line
- c. Perimysium
- d. Sarcoplasmic reticulum

5) Where does fertilization take place in the female reproductive system?

- a. Uterus
- b. Cervix
- c. Ovary
- d. Ampulla of the fallopian tubes

6) Which of the following increases the rate of deposition and decreases the rate of absorption of bone?

- a. Elevation of parathyroid hormone concentration
- b. Elevation of estrogen concentration
- c. Elevation of extracellular hydrogen ion concentration
- d. Reduction in mechanical stress on the bone

7) Example of neuroendocrine secretion

- a. Growth hormone
- b. Cortisol
- c. Oxytocin
- d. Prolactin

8) Factors that stimulate growth hormone is

- a. Increased blood glucose
- b. Exogenous growth hormone
- c. Ghrelin
- d. Testosterone

9) Hunger center is

- a. Ventro-medial nucleus of hypothalamus
- b. Lateral hypothalamic nucleus
- c. Anterior hypothalamic nucleus
- d. Posterior hypothalamic nucleus

10) Episodic memories are formed in the

- a. Amygdala
- b. Hippocampus
- c. Neocortex
- d. Uncus

11) Sperms become motile in

- a. Prostate
- b. Epididymis
- c. Vas deferens
- d. Seminal vesicle

12) Failure rate is maximum in which of the following contraceptive methods?

- a. Barrier

- b. Contraceptives
- c. IUD
- d. Oral contraceptives

13) Sleep spindles and K⁺ complexes are seen in ____ stage of sleep in EEG

- a. REM sleep
- b. Stage – 2 NREM sleep
- c. Stage – 3 NREM sleep
- d. Stage – 4 NREM sleep

14) Mossy fibers in cerebellum make direct synaptic connection with

- a. Dendrites of granule cells
- b. Axons of granule cells
- c. Dendrites of Golgi cells
- d. Purkinje cells

15) The afferent climbing fibers to the cerebellum originate from

- a. Superior olivary nucleus
- b. Inferior olivary nucleus
- c. Superior vestibular nucleus
- d. Inferior vestibular nucleus

16) Golgi tendon organ determines

- a. Static length
- b. Muscle action
- c. Muscle tension

d. Dynamic length

17) Prosopagnosia is

- a. Inability to recognize faces
- b. Inability to recognize words
- c. Inability to hear the sounds
- d. Inability to recognize smell

18) Large number of taste buds are on the walls of the

- a. Circumvallate papillae
- b. Fungiform papillae
- c. Foliate papillae
- d. Palate

19) One decibel represents an actual increase in sound energy of

- a. 1.26 times
- b. 2.26 times
- c. 3.26 times
- d. 4.26 times

20) Athetosis is characterized by

- a. Continuous slow writhing movements
- b. Rapid voluntary dancing movements
- c. Involuntary flailing movements
- d. Slowness of movements