

Q.P. CODE:504-A-CBME

DR.NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008

MBBS DEGREE EXAMINATION – JAN/FEB , 2022

FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY - PAPER-II (SET-A)

(Multiple Choice Questions)

Time: 20 Minutes Max Marks: 20

Note: Answer all questions

SECTION - I (MCQs- 20 MARKS)

1x20=20

- 1) Myelinated nerves
 - a. Axons have smaller diameter
 - b. Nerve impulses travel uniformly along axolemma
 - c. Density of voltage-gated Na+ channels are more
 - d. Na+ channels are less in axons
- The following vitamin is essential for oxidation of pyruvic acid and lactic acids in the neurons
 - a. Vitamin B1
 - b. Vitamin B6
 - c. Vitamin B12
 - d. Vitamin B2
- Lidocaine
 - a. K+ channel blocker
 - b. Na+K+ ATPase blocker





- c. Membrane toxin
- d. Na+ channel blocker
- 4) In isometric contraction in skeletal muscle, there is
 - a. Increase in muscle length
 - b. Increase in muscle tension
 - c. External work is done
 - d. Decrease in muscle length
- 5) Staircase phenomenon (Treppe) is due to
 - a. Tetanus
 - Summation of contraction
 - c. Progressively increased calcium available in the sarcoplasm
 - d. Increased Troponin level in the thin filaments
- 6) Sertoli cells secrete
 - a. Testosterone
 - b. Estrogen
 - c. Androstenedione
 - d. Inhibin
- The primordial follicle becomes primary follicle at
 - a. 28 weeks of gestation
 - b. 21 weeks of gestation
 - c. 14 weeks of gestation
 - d. 7 weeks of gestation





8) Main hormone in luteal phase is:
a. Estrogen
b. Progesterone
c. Prolactin
d. Oxytocin
9) Progesterone mainly causes development of which component of the breast?
a. Duct system
b. Lobulo-alveolar system
c. Parenchyma of breast
d. Myoepithelial cells of breast
10) Which is the best contraceptive method for a lady before 1st child birth?
a. OCP
b. IUD
c. Tubectomy
d. Diaphragms
d. Diaphragms
11) Scavenger cells in brain?
a. Astrocyte
b. Oligodendrocyte
c. Golgi cells
d. Microglia



12) The inhibitory neurotransmitter in CNS neurons is:



- a. Glutamate
- b. Aspartate
- c. Gamma-amino butyric acid
- d. Taurine
- 13) The action potential from a receptor is generated at:
 - a. Lamella at nerve ending
 - b. Nerve ending
 - c. First node of Ranvier
 - d. Cells attached to the nerve ending
- 14) Which of the following sensation is not carried in dorsal column pathway?
 - a. Vibration
 - b. Stereognosis
 - c. Crude touch
 - d. Proprioception
- 15) Which of the following is 'True' about visceral pain?
 - a. It is poorly localized
 - Resembles 'fast pain' produced by noxious stimulation of the skin
 - c. Mediated by B fibers in the dorsal roots of the spinal nerves
 - d. Causes relaxation of nearby skeletal muscles
- The diameter of Golgi tendon organ is
 - a. 100 mm
 - b. 150 mm





c. 50	mm

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- 17) Striatonigral projection; degeneration of this pathway produces
 - a. Parkinsonism
 - b. Huntington's disease
 - c. Ballism
 - d. Hemiballism
- 18) Slow wave sleep is associated with:
 - a. Dreams
 - b. Cardiac arrhythmia
 - c. Penile intumescence
 - d. Delta activity
- 19) The total refractive power of the eye is 60 D, which is contributed by
 - a. 43 D by lens and 17 D by cornea
 - b. 30 D by lens and 30 D by cornea
 - c. 23 D by lens and 37 D by cornea
 - d. 17 D by lens and 43 D by cornea
- 20) Hemingelect occurs in lesion of:
 - a. Temporal lobe
 - b. Prefrontal lobe
 - c. Parietal lobe
 - d. Frontal lobe

