

Q.P. CODE : M102A021**Dr. NTR UNIVERSITY OF HEALTH SCIENCES: AP : VIJAYAWADA-520008****MBBS DEGREE EXAMINATION - OCTOBER, 2024****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)**1X2=20**

1. All the sensations travel in the dorsal column pathway, EXCEPT:

- a) Crude touch
- b) Fine touch
- c) Vibration
- d) Two-point discrimination

2. The inhibitory neurotransmitter in CNS neurons is:

- a) Glutamate
- b) Gamma-amino-butyric acid
- c) Aspartate
- d) Taurine

3. EPSP can be caused by all, EXCEPT:

- a) Opening of sodium channels
- b) Opening of calcium channels
- c) Opening of chloride channels

d) Closure of potassium channels 1

4. Which of the following is a type of glial cell in the brain?

- a) Purkinje cells
- b) Basket cells
- c) Stellate cells
- d) Ependymal cells

5. All of the following are nuclear groups of basal ganglia, EXCEPT:

- a) Red nucleus
- b) Putamen
- c) Globus pallidus
- d) Caudate nucleus

6. In upper motor neuron paralysis,

- a) Denervation potentials are seen in EMG
- b) Superficial reflexes are absent
- c) Nerve conduction is decreased
- d) Pronounced atrophy is observed

7. The muscle spindle

- a) Has Ib fiber as an afferent neuron
- b) Has flower-spray endings on the nuclear bag fiber
- c) Is stretched when gamma motor neuron is stimulated
- d) Gives force feedback to the muscle

8. Which of the following is not a theory of referred pain?

- a) Convergence theory
- b) Facilitation theory
- c) Dermatomal theory
- d) Gate control theory

9. Main hormone in the luteal phase is

- a) Progesterone
- b) Estrogen
- c) Prolactin
- d) Relaxin

10. The hormones secreted in more quantity in the early part of pregnancy is

- a) Estrogen
- b) hCG
- c) Prolactin
- d) Relaxin

11. Broca's area is concerned with

- a) Reading
- b) Repetition
- c) Word formation
- d) Comprehension

12. Otolith organs are present in

- a) Semicircular canals

- b) Cochlea
- c) Lateral vestibular nucleus
- d) Sacculle

13. Normal intraocular pressure is

- a) 10-20 mmHg
- b) 20-30 mmHg
- c) 30-40 mmHg
- d) 5-10 mmHg

14. In Klinefelter's syndrome,

- a) Karyotype is XXX
- b) Tall male with small testes
- c) Dwarf with webbing of the neck
- d) Vagina ends in a blind pouch

15. Estrogen

- a) Causes growth of ducts of mammary gland
- b) Increases uterine blood flow
- c) Makes the cervical mucus thick and sticky
- d) Increases excitability uterine muscle

16. Intrauterine device does not

- a) Act as a foreign body
- b) Interfere with endometrial preparation
- c) Produce cellular reaction

d) Inhibit pituitary gonadotropin release

17. In otosclerosis, the pathology mainly lies in

- a) Tympanic membrane
- b) Malleus
- c) Incus
- d) Stapes

18. The resting membrane potential of cochlear hair cells is

- a) -15 mV
- b) -60 mV
- c) -30 mV
- d) -90 mV

19. The taste buds are present in all of the following papillae, EXCEPT:

- a) Circumvallate
- b) Fungiform
- c) Cuneate
- d) Foliate

20. Brain area that does not receive olfactory sensation is

- a) Piriform cortex
- b) Amygdala
- c) Anterior olfactory nucleus
- d) Anterior nucleus of the thalamus
