

**Q.P. CODE: M102A031****Dr NTR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - AUGUST, 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.**

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**SECTION-I (MCQs - 20 MARKS)****1X2=20**

- 1) In the contracted state of skeletal muscle, the width of
    - a) A band decreases
    - b) H band increases
    - c) I band decreases
    - d) I band increases
  - 2) At the neuromuscular junction, the motor neuron releases
    - a) Norepinephrine
    - b) Histamine
    - c) Acetylcholine
    - d) Neurotrophin
  - 3) Rheobase denotes
    - a) Specificity of impulse transmission
    - b) Rate of discharge of neuron
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- c) Strength of current
  - d) Duration of current
- 4) Graded potential is generated in the neuron at
- a) Dendrites
  - b) Axon hillock
  - c) Axon
  - d) Axon terminal
- 5) Which of the following is not true about the parturition reflex?
- a) It is a neurohumoral reflex
  - b) Oxytocin is the main hormone to induce uterine contraction
  - c) Control of uterine contraction by oxytocin is an example of negative feedback regulation
  - d) Estrogen increases the number and sensitivity of oxytocin receptors in the uterine muscle
- 6) Which of the following is not the function of relaxin?
- a) Inhibits uterine contraction
  - b) Inhibits sperm motility
  - c) Dilution of uterine cervix
  - d) Relaxation of pubic symphysis
- 7) Ovulation is associated with a sudden preovulatory(surge) rise in
- a) GnRH and FSH
  - b) Testosterone
  - c) LH

- d) Oxygen
- 8) Single unit smooth muscle means
- a) Multiple fibers functioning as a single unit
  - b) Single muscle cell
  - c) Single stimulus to the muscle produces successive contractions
  - d) Each muscle fiber contracts independently of other
- 9) Which of the following is not a theory of referred pain:
- a) Gate control theory
  - b) Facilitation theory
  - c) Convergence theory
  - d) Dermatomal theory
- 10) Renshaw cell inhibition is an example of:
- a) Negative feedback inhibition
  - b) Positive feedback inhibition
  - c) Postsynaptic inhibition
  - d) Feedforward inhibition
- 11) Which is the best female contraceptive method after child birth, not desirous of further deliveries?
- a) IUD
  - b) OCP
  - c) Tubectomy
  - d) Diaphragms

12) Estrogen mainly causes the development of components of the breast:

- a) Duct system
- b) Lobulo-alveolar system
- c) Parenchyma of breast
- d) Myoepithelial cells of the breast

13) Lower motor neuron paralysis will not manifest as:

- a) Muscle hypertonia
- b) Muscle atrophy
- c) Depressed tendon reflexes
- d) Babinski no response or negative

14) All are true about inverse stretch reflex, EXCEPT:

- a) Receptor is GTO
- b) Afferent is Ib fiber
- c) Afferent terminates on interneuron that contacts homonymous motoneuron
- d) Monosynaptic reflex

15) In sensory homunculus, which of the following body part is most represented?

- a) Face
- b) Neck
- c) Trunk
- d) Legs

16) Which of the following is not the direct function of the thalamus?

- a) Relay center of all sensations
- b) Perception of pain temperature and pressure
- c) Sensory-motor coordination
- d) Secretion of hormones

17) Broca's area is concerned with:

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

18) Which of the following is not a feature of Kluver-Bucy syndrome?

- a) Hypersexuality
- b) Hypophagia
- c) Visual agnosia
- d) Respond to every stimulus and explore everything

19) Which of the following nucleus controls the circadian rhythm?

- a) Supraoptic nucleus
- b) Paraventricular nucleus
- c) Suprachiasmatic nucleus
- d) Premammillary nucleus

20) All the following are nuclear groups of basal ganglia, EXCEPT:

- a) Supraoptic nucleus
- b) Paraventricular nucleus

c) Suprachiasmatic nucleus

d) Premammillary nucleus

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