

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW
MBBS DEGREE EXAMINATION - 1st PROF PROFESSIONAL REGULAR
EXAM - AUGUST 2024

PHYSIOLOGY - PAPER - II

SECTION A - Multiple Choice Questions (MCQs)

PAPER CODE: 2412130002

SET: C

Note: Choose one correct answer in the OMR sheet provided. No overwriting should be done.

Time: 20 Minutes

(20 x 1 = 20 MARKS)

1. Receptors in the Semicircular canal respond to which type of acceleration?

- a) Angular
- b) Vertical
- c) Linear
- d) Vision

2. Conversion of short term memory into long term memory occurs in:

- a) Frontal cortex
- b) Hypothalamus
- c) Amygdala
- d) Hippocampus

3. The maximum effect of vasopressin occurs at:

- a) Proximal convoluted tubule
- b) Medullary part of the collecting duct
- c) Distal convoluted tubule

d) Cortical part of collecting duct

4. Medial Geniculate Body is concerned with the sense of:

- a) Vision
- b) Smell
- c) Hearing
- d) Taste

5. Prolactin secretion is inhibited by:

- a) Dopamine
- b) Serotonin
- c) Epinephrine
- d) Thyroxine

6 Severe diarrhoea may use

- a) Metabolic alkalosis
- b) Respiratory acidosis
- c) Metabolic acidosis
- d) Respiratory alkalosis

7. Stretch reflex is integrated at the level of:

- a) Pons
- b) Medulla
- c) Spinal cord
- d) Cerebral cortex

8. Fertilized ovum enters the uterus at which stage?

- a) Secondary oocyte
- b) Morula
- c) Primary oocyte
- d) Blastocyst

9. Insulin is required for transport of Glucose into:

- a) Neuron
- b) Adipocyte
- c) Cardiac myocyte
- d) Hepatocyte

10. Which of the following is the LEAST absorbable in renal tubules?

- a) Creatinine
- b) Glucose
- c) Urea
- d) Sucrose

11. The fluid in Distal Convoluted tubule is always:

- a) Isotonic
- b) Hypertonic
- c) Hypotonic
- d) Isoosmotic

12. True visceral pain arises from:

- a) Distention

- b) Irritation
- c) Compression
- d) Chemical stimulation

13. Meissner's corpuscles are sensitive to:

- a) Temperature change
- b) Mechanical deformity
- c) pH of Interstitial fluid
- d) Histamine

14. Atrial natriuretic peptide causes increase in:

- a) Cardiac output
- b) Urine output
- c) Blood Volume
- d) Renin secretion

15. Taste receptors are:

- a) Modified epithelial cells
- b) Specialised nerve endings
- c) Surface epithelial cells
- d) Telereceptors

16. Hormone with shortest half life in circulation is:

- a) Epinephrine
- b) Insulin
- c) Acetylcholine

d) Triiodothyronine(T3)

17. Fetal testis DOES NOT secrete:

- a) Androgen Binding Protein
- b) Inhibin B
- c) Mullerian regression factor
- d) Testosterone

18. Which of the following is NOT SEEN in Lower Motor Neuron lesion?

- a) Weak reflexes
- b) Hypotonia
- c) Muscle atrophy
- d) Clasp-knife rigidity

19. Accommodation reflex includes:

- a) Dilatation of Pupil
- b) Convergence of Eyeballs
- c) Relaxation of Ciliary Muscles
- d) Diplopia

20. Placental progesterone causes:

- a) Development of breast lobules
- b) Deposition of fat in breast
- c) Thickening of myometrium
- d) Deposition of fat in gluteal region
