

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

PHYSIOLOGY - PAPER - II

SECTION A - Multiple Choice Questions (MCQs)

PAPER CODE: 2422130002 SET: A

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

should be done.

Time: 20 Minutes $(20 \times 1 = 20 \text{ MARKS})$

- 1. The hormone responsible for the conversion of Wolffian duct into vas deferens in the male fetus is:
 - a) Estrogen
 - b) Progesterone
 - c) Testosterone
 - d) Cortisone
- 2. Bitter taste is mediated by the action of:
 - a) Guanyl cyclase
 - b) G protein
 - c) Tyrosine kinase
 - d) Epithelial Na channels
- 3. Otoconia are suspended in:
 - a) Synovial fluid



b) Endolymph
c) Perilymph
d) Hemolymph
4. The major source of NH3 produced by the kidney is:
a) Glutamine
b) Alanine
c) Glycine
d) Uric acid
5. H+ secretion in the renal tubule is affected by:
a) Increase in pCO2
b) Mineralocorticoids
c) Decreased K+ level
c) Decreased K+ level d) Carbonic anhydrase inhibitor
6. Glucose transport in the PCT of the kidney takes place by:
a) Active transport
b) Secondary active transport
c) Passive transport
d) Bulk flow
7. Wernicke's area:
a) Is present in the parietal cortex
b) Lies near the auditory area of the temporal lobe
c) Is located in the occipital cortex

8. Destruction of the lateral nucleus of the thalamus leads to:



a) Satiety
b) Aphagia
c) Hyperphagia
d) Somnolence
9. The hormone that is a derivative of a single amino acid is:
a) Estrogen
b) Epinephrine
c) Thyroxine
d) Progesterone
10. Which of the following is a criterion of brain death?
a) Absence of cortical function
b) Absence of eye opening
c) Absent pharyngeal gag reflex
d) Absence of caloric response
11. Biological rhythms are controlled by:
a) Suprachiasmatic nucleus
b) Ventromedial nucleus
c) Arcuate nucleus
d) Supraoptic nucleus



12. Prostaglandin in seminal fluid comes from:
a) Prostate gland
b) Seminal vesicles
c) Leydig cells
d) Sertoli cells
12. Decontours a bas the ability to
13. Progesterone has the ability to:
a) Inhibit ferning of cervical mucus
b) Antagonize the effect of aldosterone
c) Give rise to secretory endometrium
d) Prevent ovulation if given in sufficient doses
14. Impedance matching increases the force of sound waves on the tympanic membrane by: a) 12 times b) 17 times c) 22 times
b) 17 times
c) 22 times
d) 27 times
15. Argyll Robertson pupil is a condition in which the pupillary constriction in response to light stimulus:
a) Is absent
b) Is delayed
c) Is not affected
d) Is present only in one eye

16. One of the following DOES NOT form the filtration barrier in nephrons:



	a) Mesangium
	b) Podocytes
	c) Endothelial cells
	d) Parietal layer of Bowman's capsule
1	17. Automatic bladder is seen in:
	a) Spinal shock
	b) Cauda equina lesion
	c) Filum terminale lesion
	d) Superior sagittal sinus lesion
1	18. Which of the following statements about the PCT is false?
	a) About 60% of water is reabsorbed here
	b) Glucose is completely reabsorbed here
	b) Glucose is completely reabsorbed here c) Hydrogen ions are secreted here
	d) The fluid leaving the PCT is hypotonic
	Ra.
1	19. The wave in EEG with the highest frequency is:
	a) Delta wave b) Beta wave
	b) Beta wave
	c) Theta wave
	d) Gamma wave
2	20. Signals from the Golgi Tendon Organ are carried by:
	a) la Fibres
	b) Ib Fibres



- c) IIa Fibres
- d) IIb Fibres

MMM.FirstRanker.com