

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 1123]

NOVEMBER 2023

Sub. Code : 6054

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)**FIRST YEAR – (CBME)**
PAPER II – PHYSIOLOGY*Q.P. Code: 526054***Time: 30 Minutes****Maximum : 20 Marks****Answer All Questions**

Choose one correct answer in the box provided in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

III. Multiple Choice Questions:**(20 x 1 = 20)**

1. Prepotential is due to:
A) Voltage gated sodium channels B) Delayed closure of potassium channels
C) Long lasting calcium channels D) None of the above
2. _____ acts as a primer pump.
A) Atria B) Ventricles C) Bundle of His D) Purkinje fibers
3. Cardiotachometer is an instrument used to diagnose
A) Sinoatrial block B) Sinus arrhythmia
C) Premature ventricular contraction D) Premature atrial contraction
4. The phenomenon of “Overdrive suppression” is seen in
A) Stokes Adam’s syndrome B) Wolf Parkinson White syndrome
C) William’s syndrome D) Noonan syndrome
5. Significance of Reynolds number (Re) is to
A) Regulate BP B) Regulate speed of blood flow
C) Determine turbulence in blood flow D) Regulate respiration
6. In cystic fibrosis, Repeated Pulmonary infections occurs due to
A) Streptococcus pneumonia B) Escherchia Coli
C) Pseudomonas aeruginosa D) Klebsiella pneumonia
7. Factors that shift the Oxygen Dissociation Curve to Right
A) Decreased CO₂ B) Decreased temperature
C) Increased 2,3 BPG D) Decreased hydrogen ion
8. Biot’s breathing occurs due to
A) Lesion in Medulla oblongata B) Severe cardiac failure
C) Diabetic Ketoacidosis D) Lesion in Pons

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9. Cyanide poisoning causes death due to
A) Respiratory depression B) Brainstem depression
C) Destruction of cytochrome oxidase D) Circulatory collapse
10. Dyspnea occurs at rest, when Dyspnoeic Index is reduced to
A) < 80% B) <90% C) <60% D) <70%
11. Type of fibre responsible for carrying motor signals to muscle spindle
A) A α B) A β C) A γ D) A δ
12. Types of muscarinic cholinergic receptors present in CNS are
A) M₁, M₄, M₅ receptors B) M₂, M₄, M₅ receptors
C) M₃, M₄, M₅ receptors D) M₁, M₂, M₄ receptors
13. A receptor that never fully adapts is
A) Pacinian corpuscle B) Meissner corpuscle
C) Ruffini corpuscles D) Baroreceptors
14. Corticospinal and corticobulbar tract neurons are located in _____ of cerebral cortex
A) Layer III B) Layer IV C) Layer V D) Layer I
15. Herpes virus infects _____.
A) Dorsal root ganglion B) Otic ganglion
C) Pterygopalatine ganglion D) Ciliary ganglion
16. The rate of impulses generated from the vestibular hair cells in resting condition is
A) 200/sec B) 100/sec C) 300/sec D) 400/sec
17. Higher intellectual functions are linked to
A) Limbic system B) Parietal lobe C) Prefrontal cortex D) Motor cortex
18. Distorted sense of smell is called as
A) Apraxia B) Anosmia C) Parosmia D) Ageusia
19. Other name for Reissner Membrane
A) Basilar membrane B) Vestibular membrane
C) Tympanic membrane D) Tectorial membrane
20. Loss of accommodation in old age is called
A) Myopia B) Cataract C) Emmetropia D) Presbyopia.

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