

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

[MBBS 0323]

MARCH 2023

Sub. Code : 6054

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

FIRST YEAR – SUPPLEMENTARY (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)

- Hypoxia produces vasoconstriction in the
A) Muscles B) Liver C) Lungs D) Spleen
- Which of the following type of breathing occurs in diabetic ketoacidosis?
A) Apneustic breathing B) Biot's breathing
C) Kussmaul's breathing D) Cheyne – Stokes breathing
- Breathing reserve is equal to
A) Tidal volume X respiratory rate
B) Maximum breathing capacity – Respiratory minute volume
C) Maximum breathing capacity – Dead space
D) Respiratory minute volume – Tidal volume
- Carbon dioxide is mainly transported as
A) Dissolved form B) Bicarbonate form
C) Carbaminohemoglobin D) Carbaminoprotein
- The volume of air that remains in the lungs at the end of maximum expiration is called as
A) Functional residual capacity B) Vital capacity
C) Residual volume D) Tidal volume
- Which of the following is a vasodilator?
A) Endothelin B) Norepinephrine C) Vasopressin D) Bradykinin
- Windkessel effect is seen in
A) Aorta B) Inferior vena cava C) Capillaries D) Lymphatics
- Which one of the followings is the most powerful cardioaccelerator and vasoconstrictor?
A) Baroreceptor reflex B) Chemoreceptor reflex
C) Bain bridge reflex D) CNS ischemic response
- The blood pressure below which the vessels collapse and blood flow ceases is
A) Critical closing pressure B) Mean circulatory filling pressure
C) Mean systemic filling pressure D) Mean arterial pressure

10. Delay in impulse conduction in the heart occurs at
A) SA node B) AV node C) Bundle of His D) Purkinji fibres
11. Nociceptive stimuli are detected by
A) Pacinian corpuscle B) Merkel's disc C) Free nerve ending D) Ruffini end organ
12. Posterior column carries all sensations except
A) Vibration B) Fine touch C) Itch and tickle D) Position sense
13. Which of the following occurs after parasympathetic stimulation?
A) Dilation of bronchi B) Contraction of detrusor
C) Dilation of pupil D) Ejaculation
14. Which of the following is negative memory?
A) Habituation B) Sensitization C) Consolidation D) Long term potentiation
15. Planning of sequential movements occurs at
A) Vestibulocerebellum B) Spinocerebellum
C) Cerebrocerebellum D) Flocculonodular lobe
16. The 'positive' apnea test indicates
A) Breath holding B) Brain death C) Deglutition apnea D) Obstructive sleep apnea
17. Artificial hypothermia is induced in
A) Heat stroke B) Heart surgeries C) Frostbite D) Fever
18. When light falls on rods, the rods undergo
A) Depolarization B) Hyperpolarisation C) Repolarisation D) Spike potential
19. In which nucleus of thalamus, taste fibers relay?
A) Ventral posterolateral nucleus B) Anterior nucleus
C) Midline intra laminar nucleus D) Ventral posteromedial nucleus
20. Thermostatic body temperature control center is located in the
A) Preoptic area of hypothalamus B) Lateral hypothalamus
C) Organum vasculosum of lamina terminalis D) Ventromedial nucleus.

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