

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

[MBBS 0522]

MAY 2022

Sub. Code : 6053

**M.B.B.S. DEGREE EXAMINATION**

(For the candidates admitted from the Academic Year 2019-2020)

**FIRST YEAR – SUPPLEMENTARY (CBME)**

**PAPER I – PHYSIOLOGY**

**MULTIPLE CHOICE QUESTIONS**

*Q.P. Code: 526053*

**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.**

**III. Multiple Choice Questions:**

**(20 x 1 = 20)**

1. Golgi complex is an organelle ,
  - A. Participates in breakdown of proteins and lipids
  - B. Post translational processing of proteins.
  - C. Energy production
  - D. Transcription and translation
  
2. The term homeostasis is coined by
  - A. W.B. Cannon
  - B. Claude Bernard
  - C. Starling
  - D. William Harvey
  
3. Indicator used to measure plasma volume is,
  - A. D<sub>2</sub>O
  - B. Inulin
  - C. Evan's blue dye
  - D. Radioactive sodium
  
4. Neutrophil falls in all except,
  - A. Typhoid
  - B. Pernicious anaemia
  - C. Acute bacterial infection
  - D. Bone marrow depression
  
5. Eosinophil granules do not contain,
  - A. Lysozymes
  - B. Histamine
  - C. Ribonuclease enzyme
  - D. Peroxidase enzyme

6. In complement system cell lysis is brought about by,
  - A. Cytokine
  - B. Perforins
  - C. Interleukins
  - D. Lysosomes
  
7. Incorrect regarding sickle cell Anaemia is
  - A. RBCs fragility increases
  - B. RBCs are sickle shaped
  - C. Manifest as mild anaemia
  - D. Blood flow to the tissue decreases
  
8. Identify the correct statement,
  - A. The renal medullary blood flow is high
  - B. Vasa recta creates medullary hyper osmolarity
  - C. Medullary blood flow is less than 5% of total renal blood flow
  - D. The U-shaped structure of vessels do not minimize the loss of solutes
  
9. Nephrotic syndrome is due to,
  - A. Increased glomerular permeability leading to loss of proteins
  - B. Decreased glomerular filtration rate
  - C. Increased loss of sodium chloride
  - D. Increased production of plasma proteins
  
10. The following are loop diuretics except,
  - A. Furosemide
  - B. Ethacrynic acid
  - C. Bumetanide
  - D. Mannitol
  
11. Staircase phenomenon is due to
  - A. Increased availability of intra cellular calcium
  - B. Synthesis of stale troponin c molecules
  - C. Summation
  - D. Tetanus
  
12. Latch bridge mechanism in smooth muscle is responsible for
  - A. Fast muscle twitch
  - B. Sustained muscle contraction
  - C. Excitation contraction coupling
  - D. Unstable membrane potential
  
13. An example of multi-unit smooth muscle is
  - A. Stomach
  - B. Uterine myometrium
  - C. Iris
  - D. Ureter

14. The basic RMP of gastro intestinal smooth muscle can be affected by
- A. Stimulation by acetylcholine
  - B. Enzyme produced by GI secretions
  - C. Enteric nervous system
  - D. Peristalsis
15. Fructose is absorbed by,
- A. Na dependent transport
  - B. Osmosis
  - C. Simple diffusion
  - D. Facilitated diffusion
16. Sperms become motile in,
- A. Prostate
  - B. Epidydimis
  - C. Vas deferens
  - D. Seminal vesicle
17. Ovulation in a women with normal health occurs,
- A. Just before LH surge
  - B. 14 days prior to start of menstrual bleeding
  - C. Just before corpus luteum maturation
  - D. During progesterone rise
18. Factors that stimulate growth hormone is
- A. Increased blood glucose
  - B. Exogenous growth hormone
  - C. Somatomedins
  - D. Testosterone
19. Addison's disease is due to
- A. Hyper-adrenalism
  - B. Hypo adrenalism
  - C. Increased secretion of melanin
  - D. Increased adrenal androgens.
20. Synthetic hormone dexamethasone has
- A. Only mineralo-corticoid activity
  - B. Only gluco-corticoid activity
  - C. Both of the above
  - D. None of the above

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