

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)
FIRST YEAR
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. Microfilaments are solid fibres made up of
 - A. Actin
 - B. Tubulin
 - C. Titin
 - D. Myosin
2. Total safety factor against edema is
 - A. 3 mm Hg
 - B. 10 mm Hg
 - C. 17 mm Hg
 - D. 7 mm Hg
3. Protein subunits that lines up the Gap junctions are
 - A. Claudin
 - B. Connexin
 - C. Occludin
 - D. Actin
4. The part of cell membrane which limit the movement of water soluble substances,
 - A. Protein portion
 - B. Polysaccharide portion
 - C. Lipid portion
 - D. Membrane enzymes
5. Major force affecting the distribution of water and solutes in different body compartments is,
 - A. diffusion
 - B. osmosis
 - C. Active transport
 - D. Na-K⁺ pump

6. ECF volume is difficult to measure because,
- A. sampling it is difficult
 - B. limits of this space are ill defined
 - C. No substance is distributed exclusively in this compartment
 - D. Substance which equilibrate here also equilibrate with plasma
7. Rigor mortis is due to
- A. damage to actin and myosin
 - B. rapid sequestration of calcium in the endoplasmic reticulum
 - C. Increased myosin ATPase
 - D. ATP depletion
8. Which of the following will bind more calcium
- A. Calmodulin
 - B. Calsequestrin
 - C. Albumin
 - D. Calbindin
9. Hyponatremia can be caused by all of the following **except**,
- A. Diarrhoea
 - B. Over use of diuretics
 - C. Addison's disease
 - D. Diabetes insipidus
10. About 90% of the filtered glucose is reabsorbed in the early part of proximal tubule by
- A. SGLT1
 - B. SGLT2
 - C. GLUT 3
 - D. GLUT1
11. Transport maximum is not exhibited by,
- A. Glucose
 - B. Lactate
 - C. Creatinine
 - D. Sodium
12. All the following factors stimulate K^+ secretion by principle cells except,
- A. Increased Extra cellular fluid K^+ concentration
 - B. Increased aldosterone
 - C. Increased H^+ ion concentration
 - D. Increased tubular flow rate
13. Iron deficiency Anaemia is,
- A. Normocytic Normochromic
 - B. Normocytic Hypochromic
 - C. Microcytic Hypochromic
 - D. Macrocytic Hypochromic

14. Physiological effects of calcium are all except,
- A. Haemostasis and blood clotting
 - B. Increased platelet formation
 - C. Transmission of nerve impulse
 - D. Acts as a second messenger
15. Following is the histamine receptor blocking drug,
- A. Ranitidine
 - B. Omeperazole
 - C. Atropin
 - D. Calcium Bicarbonate
16. Co lipase is an enzyme produced by,
- A. Stomach
 - B. Lingual gland
 - C. Duodenum
 - D. Exocrine pancreas
17. The secretion of seminal vesicle contains all of the following except,
- A. Fructose
 - B. Citric acid
 - C. Prothrombin
 - D. Fibrinogen
18. which is not the symptom of hyperthyroidism of,
- A. High state of excitability
 - B. Intolerance to cold
 - C. Increased sweating
 - D. Weight loss
19. Which of the following is Ovulating hormone?
- A. FSH.
 - B. LH.
 - C. Estrogen.
 - D. Progesterone.
20. IUD acts by following mechanism except,
- A. Interferes with endometrial preparation
 - B. Makes cervical mucus thick
 - C. Acts as a foreign body in uterus
 - D. Prevents Ovulation
