

**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
  - Myosin
2. Total safety factor against edema is
  - A. 3 mm Hg
  - B. 10 mm Hg
  - C. 17 mm Hg
  - 7 mm Hg
3. Protein subunits that lines up the Gap junctions are
  - A. Claudin
  - B. Connexin
  - C. Occludin
  - Actin
4. The part of cell membrane which limit the movement of water soluble substances,
  - A. Protein portion
  - B. Polysaccharide portion
  - C. Lipid portion
  - Membrane enzymes
5. Major force affecting the distribution of water and solutes in different body compartments is,
  - A. diffusion
  - B. osmosis
  - C. Active transport
  - Na-K<sup>+</sup> pump

6. ECF volume is difficult to measure because,

A. sampling it is difficult

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B. limits of this space are ill defined

C. No substance is distributed exclusively in this compartment

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

ATP depletion

8. Which of the following will bind more calcium

A. Calmodulin

B. Calsequestrin

C. Albumin

Calbindin

9. Hyponatremia can be caused by all of the following **except**,

A. Diarrhoea

B. Over use of diuretics

C. Addison's disease

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

GLUT1

11. Transport maximum is not exhibited by,

A. Glucose

B. Lactate

C. Creatinine

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

Increased tubular flow rate

13. Iron deficiency Anaemia is,

A. Normocytic Normochromic

B. Normocytic Hypochromic

C. Microcytic Hypochromic

Macrocytic Hypochromic

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- A. Haemostasis and blood clotting
  - B. Increased platelet formation
  - C. Transmission of nerve impulse
  - Acts as a second messenger
15. Following is the histamine receptor blocking drug,
- A. Ranitidine
  - B. Omeperazole
  - C. Atropin
  - Calcium Bicarbonate
16. Co lipase is an enzyme produced by,
- A. Stomach
  - B. Lingual gland
  - C. Duodenum
  - Exocrine pancreas
17. The secretion of seminal vesicle contains all of the following except,
- A. Fructose
  - B. Citric acid
  - C. Prothrombin
  - Fibrinogen
18. which is not the symptom of hyperthyroidism of,
- A. High state of excitability
  - B. Intolerance to cold
  - C. Increased sweating
  - Weight loss
19. Which of the following is Ovulating hormone?
- A. FSH.
  - B. LH.
  - C. Estrogen.
  - 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
  - Prevents Ovulation

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