

**[BUMS-0723]**

**Sub. Code : 1206**

THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY

JULY 2023

KAMIL-E-TIB WA JARAHAT

FIRST PROFESSIONAL B.U.M.S. DEGREE COURSE

PAPER VI - MUNAFE-UL-AAZA (PHYSIOLOGY) UNIUG-MZ-PAPER – I

Q.P. Code : 621206

(New Regulations 2021)

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.

Multiple Choice Questions:

(20 × 1 = 20)

- Degradation of substance takes place in which part of the cell,  
(A) Mitochondria (B) Nucleus  
(C) Endoplasmic reticulum (D) Lysosomes
- The antioxidant enzyme is  
(A) Cytochrome oxidase (B) Xanthine oxidase  
(C) Superoxidase dismutase (D) Cyclo- oxygenase
- Iron is present in all EXCEPT  
(A) Cytochrome oxidase (B) Catalase  
(C) Peroxidase (D) Carbonic anhydrase
- The structure in the cell that is concerned with synthesis of ribosomes is  
(A) Nucleus (B) Endoplasmic reticulum  
(C) Golgi apparatus (D) Centriole
- Storage site of Ca<sup>++</sup> inside the cell  
(A) Rough endoplasmic reticulum (B) Smooth endoplasmic reticulum  
(C) Golgi apparatus (D) Secretory vesicles
- The ion that is responsible for the production of resting membrane potential is  
(A) Na<sup>+</sup> (B) K<sup>+</sup>  
(C) Ca<sup>2+</sup> (D) Cl

7. In smooth muscle, excitation contraction coupling is triggered by binding of  $Ca^{++}$  with
  - (A) Troponin
  - (B) Calmodulin
  - (C) Tropomyosin
  - (D) Actin
8. Chondrocytes are of cartilage as Osteocytes are to
  - (A) Blood
  - (B) Fat
  - (C) Epithelium
  - (D) Bone
9. Cells that store fat are called
  - (A) Fibroblast
  - (B) Macrophages
  - (C) Adipose Tissue
  - (D) Mast cell
10. Normal albumin/globulin ratio is
  - (A) 2:1
  - (B) 1.7:1
  - (C) 1:1.7
  - (D) 1:2
11. Plasma cells are activated
  - (A) B Lymphocytes
  - (B) T Lymphocytes
  - (C) Macrophages
  - (D) Monocytes
12. Life span of plasma cell is
  - (A) 1-2 weeks
  - (B) 2-3 days
  - (C) 1 month
  - (D) 4-5 week's
13. Maturation defect in RBC is seen in
  - (A) Folic acid and vitamin B12 deficiency
  - (B) Vitamin C deficiency
  - (C) Vitamin D deficiency
  - (D) Iron deficiency
14. The most important stimulus for erythropoietin secretion is
  - (A) Renal failure
  - (B) Hypoxia
  - (C) Hypercapnia
  - (D) Liver disease
15. The blood cell contains heparin is
  - (A) Neutrophil
  - (B) Eosinophil
  - (C) Basophil
  - (D) Monocyte
16. Pernicious anaemia is due to deficiency of
  - (A) Vitamin B6
  - (B) Folic acid
  - (C) Vitamin B12
  - (D) Iron
17. Heme synthesis requires
  - (A) Ferric ion
  - (B) Alanine
  - (C) Succinyl-CoA
  - (D) Lead

18. Thrombopoietin is produced by  
(A) Liver (B) Spleen  
(C) Lymph node (D) Kidney
19. Plasma cells are transformed  
(A) Mast cells (B) Monocytes  
(C) B- Lymphocytes (D) Polymorphism
20. Serum does not contain  
(A) Calcium (B) Factor VII  
(C) Factor VIII (D) Factor XI
-