

**CBME****DR. YSR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION – JANUARY, 2023****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY – PAPER-I (SET-D)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions**

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**SECTION – I (MCQs- 20 MARKS)****1x20=20**

- 1) The greatest fraction of water reabsorption takes place in
    - a. Proximal convoluted tubule
    - b. Distal convoluted tubule
    - c. Cortical collecting duct
    - d. Medullary collecting duct
  
  - 2) Asphyxia is due to a combination of hypoxia and
    - a. Reduced oxygen carrying capacity
    - b. Hypercapnia
    - c. Hypocapnia
    - d. Acidosis
  
  - 3) The cause for the characteristic features seen when a diver suddenly comes from deep sea to the surface
    - a. Increased arterial PCO<sub>2</sub>
    - b. Increased pH
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- c. Nitrogen bubbles in the blood
  - d. Oxygen bubbles in the blood
- 4) Ideal site for evaluation of cyanosis in dark complexion individuals is
- a. Lips
  - b. Nail beds
  - c. Tongue
  - d. Ear lobes
- 5) The common type of electrolyte imbalance seen after blood transfusion is
- a. Hyperkalemia
  - b. Hypokalemia
  - c. Hypercalcemia
  - d. Hyponatremia
- 6) Cryoprecipitate consists of
- a. Packed cells
  - b. Platelets
  - c. Coagulation factor I and VIII
  - d. Coagulation factor II and IX
- 7) Decreased arterial PO<sub>2</sub> with normal oxygen carrying capacity of blood and rate of blood flow to tissues is
- a. Hypoxic hypoxia
  - b. Anaemic hypoxia
  - c. Histotoxic hypoxia
  - d. Stagnant hypoxia

8) Lymphatic system exists in all organs EXCEPT

- a. Liver
- b. Lungs
- c. Central nervous system
- d. Intestine

9) Ceruloplasmin is responsible for the transport of

- a. Iron
- b. Steroids
- c. Haemoglobin
- d. Copper

10) Which of the following filtered substances is NOT present in normal urine?

- a. Sodium
- b. Glucose
- c. Urea
- d. Creatinine

11) Erythropoietin secretion is inhibited by

- a. Hypoxia
- b. Androgen
- c. Estrogen
- d. Products of RBC destruction

12) Where does the first step in the production of urine occur?

- a. Bowman's capsule
- b. Glomerulus
- c. Vasa recta
- d. Proximal convoluted tubule

13) Afferent cranial nerves for deglutition reflex are

- a. V, IX, X
- b. V, VII, IX
- c. VII, IX, X
- d. VIII, IX, X

14) Agglutinin is present in

- a. Red blood cell
- b. Plasma
- c. Platelets
- d. White blood cells

15) Three phases of deglutition are

- a. Cephalic, gastric and intestinal
- b. Cephalic, pharyngeal and esophageal
- c. Oral, pharyngeal and intestinal
- d. Oral, pharyngeal and esophageal

16) The main function of albumin is

- a. Determination of blood viscosity
- b. Determination of osmotic pressure of blood

- c. Formation of blood clot
- d. Defense

17) In a Jugular venous pressure record, 'c' wave is due to

- a. Atrial contraction
- b. Bulging of tricuspid valve into right atrium
- c. Venous blood flow into the atria
- d. Jugular vein constriction

18) The true statement with regard to second heart sound is,

- a. It coincides with the 'R' wave of E.C.G.
- b. It is due to closure of semi-lunar valves
- c. It is due to closure of AV valves
- d. It marks the onset of ventricular systole

19) The fourth heart sound is due to

- a. Closure of the aortic and pulmonary valves
- b. Vibrations in the ventricular wall by the inrush of blood
- c. Ventricular filling during atrial systole
- d. Closure of the mitral and tricuspid valves

20) In a normal heart at rest, the Stroke Volume in ml is,

- a. 30-40
- b. 70-80
- c. 110-120
- d. 120-140