

**Q.P. CODE: M1024020****Dr NTR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - AUGUST, 2024****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY - PAPER-I (SET-A)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

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**SECTION-I (MCQs - 20 MARKS)****1X2=20**

1. During inspiration, intrapleural pressure becomes

- a) equal to zero
- b) more positive
- c) more negative
- d) equal to the pressure in the alveoli

2. A lack of normal surfactant results in

- a) increased lung compliance
- b) stabilization of alveolar volume
- c) an increased collapsing tendency of the lungs
- d) bronchospasm

3. The partial pressure of carbon dioxide is highest in

- a) exhaled gas
- c) systemic arterial blood

d) systemic venous blood

4. Cyanosis indicates a higher-than-normal blood concentration of

a) carbon dioxide

b) hydrogen ions

c) 2,3 DPG

d) reduced hemoglobin

5. The respiratory centers are located in

a) cerebral cortex

b) Hypothalamus

c) Medulla

d) spinal cord

6. 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

7. Clotting time is normal in:

a) Factor III deficiency

b) hemophilia

c) purpura

d) factor XI deficiency

8. Immunoglobulins are produced by

- a) neutrophil
- b) monocyte
- c) erythrocyte
- d) plasma cell

9. Anaemia due to maturation defect is

- a) haemolytic anaemia
- b) microcytic anaemia
- c) normocytic anaemia
- d) megaloblastic anaemia

10. Vitamin B 12 absorption takes place mainly from:

- a) duodenum
- b) stomach
- c) ileum
- d) jejunum

11. Wedge pressure represents

- a) left atrial pressure
- b) right atrial pressure
- c) right ventricular pressure
- d) left ventricular pressure

12. The true statement with regard to second heart sound is,

- a) it coincides with the 'R' wave of E.C.G.
- b) it splits into two components during inspiration
- c) it is due to closure of AV Valves
- d) it makes the onset of ventricular systole

13. 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 due to atrial systole
- d) closure of the mitral and tricuspid valves

14. In a normal heart at rest, the Stroke Volume in ml is:

- a) 50-60
- b) 70-80
- c) 90-100
- d) 110-120

15. Korotkoff sounds are produced

- a) by the heart
- b) during the recording of blood pressure
- c) in valvular defect
- d) during breathing

16. The amount of plasma that enters Bowman's capsule per minute is the

- a) glomerular filtration rate
- b) renal plasma flow

- c) renal fraction
- d) renal blood flow 1

17. The condition in which urine output is less than 50 ml

- a) dysuria
- b) anuria
- c) enuresis
- d) azotemia

18. Number of nephrons present in both kidneys together

- a) 20-30 million
- b) 2.3 million
- c) 200-300 million
- d) 2000-3000 million

19. Amount of blood enters the renal arteries per minute:

- a) 180 l
- b) 1200 ml
- c) 125 ml
- d) 700 ml

20. Renin is secreted by

- a) JG cells
- b) renal tubular epithelial cells
- c) mesangial cells

d) renal interstitial cells

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