

Q.P. CODE : M102A020**Dr. NTR UNIVERSITY OF HEALTH SCIENCES: AP : VIJAYAWADA-520008****MBBS DEGREE EXAMINATION - OCTOBER, 2024****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY PAPER- I (SET-C)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

SECTION-I (MCQs - 20 MARKS)**1X2=20****1. Erythrocyte sedimentation rate (ESR) is decreased in**

- a) Iron deficiency anaemia
- b) Arthritis
- c) Tuberculosis
- d) All of these

2. Erythropoiesis is inhibited by

- a) Thyroxine
- b) Estrogen
- c) Intrinsic factor
- d) Interleukin 1

3. Phagocytosis is done by

- a) Lymphocyte
- b) Monocyte
- c) Basophil

d) Eosinophil

4. Abnormal Hb is

a) Hb F

b) Hb A

c) Hb S

d) Embryonic Hb

5. In the kidney, Aldosterone mainly acts upon

a) Proximal convoluted tubule

b) Loop of Henle

c) Glomerulus

d) Collecting duct

6. Clot retraction is a function of

a) Fibrinogen

b) Prothrombin

c) Plasminogen

d) Platelet

7. How much sodium is normally reabsorbed in PCT?

a) 67%

b) 77%

c) 97%

d) 50%

8. Which of the following increases the glomerular filtration rate (GFR)?

- a) Increase in hydrostatic pressure of Bowman's capsule
- b) Decrease in glomerular capillary hydrostatic pressure
- c) Decrease in capillary permeability of
- d) Decrease in glomerular capillary oncotic pressure

9. The content of which of the following gases is maximum in inspired air?

- a) Oxygen
- b) Nitrogen
- c) Carbon dioxide
- d) Carbon monoxide

10. Loop of Henle handles the following EXCEPT:

- a) Na^+
- b) H^+
- c) Cl^-
- d) Urea

11. Normal ventilation-perfusion ratio is about

- a) 0.8
- b) 1.2
- c) 0.5
- d) 2.5

12. Which of the following acts as a counter-current exchanger?

- a) Vasa recta

- b) Thick ascending limb of loop of Henle
- c) Thin descending limb of loop of Henle
- d) Collecting duct

13. The maximum volume of air that can be expired after a maximal inspiratory effort

- a) Vital capacity
- b) Tidal volume
- c) Expiratory reserve volume
- d) Residual volume

14. Most important stimulus to peripheral chemoreceptors is

- a) Decreased PO_2
- b) Decreased CO_2
- c) Increased pH
- d) Increased HCO_3

15. The conduction velocity is lowest in

- a) HIS bundle
- b) SA node
- c) Ventricular muscle
- d) Internodal pathways

16. Increased airway resistance is caused by all EXCEPT:

- a) Forced expiration
- b) High lung volume
- c) Dense air

d) Breathing dust particles

17. If end diastolic volume is 160 ml and stroke volume is 80 ml, the ejection fraction is

- a) 40%
- b) 50%
- c) 60%
- d) 70%

18. Cardiac muscle cannot be tetanized because of

- a) Rich blood supply
- b) Rich innervation
- c) Longer absolute refractory period
- d) High myoglobin content

19. End diastolic volume increases when

- a) Intrathoracic pressure becomes more negative
- b) Total blood volume decreases
- c) Right atrial pressure increases
- d) Ventricular compliance decreases

20. The 'v' wave of jugular venous pressure (JVP) curve is caused by

- a) Closure of the tricuspid valve
- b) Closure of the aortic valve
- c) Contraction of the atrium
- d) Rise in pressure due to venous return
