



1. Describe events of cardiac cycle. With a diagram, explain segments of intra-ventricular pressure curve.
2. Describe Neural regulation of respiration

SHORT ESSAYS

10 X 5 = 50 Marks

3. Describe active transport and passive transport with examples
4. Describe pressure changes during respiration.
5. Explain changes of acclimatization.
6. Compare first and second heart sound.
7. Classify jaundice and compare types of jaundice.
8. Describe Dysbarism and its prevention
9. Explain ventricular muscle action potential and pacemaker potential.
10. Explain laboratory tests for coagulation and bleeding disorders.
11. Describe coronary circulation
12. Explain GFR and its measurement.

Multiple Choice Questions

10 X 1 = 10 Marks

13. Function of rough endoplasmic reticulum
 - a) ATP synthesis
 - b) DNA synthesis
 - c) Protein synthesis
 - d) Cell division
14. Rh immunoglobulin is
 - a) IgA
 - b) IgG
 - c) IgM
 - d) IgE
15. Cardiovascular reflexes are sensitive to variations in
 - a) Systolic BP
 - b) Diastolic BP
 - c) Pulse pressure
 - d) Mean Arterial Pressure
16. for each 1 cm descent of diaphragm, amount of air sucked into the lungs is
 - a) 100 ml-200ml
 - b) 200-300ml
 - c) 300-400ml
 - d) 400-500ml



Cardiac output increased during heavy exercise to

- a) 5-10 L/min
- b) 10-15 L/min
- c) FirstRanker's choice
- d) 25-30 L/min

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- 19. T wave of ECG produced due to
 - a) Atrial repolarization
 - b) Atrial depolarization
 - c) Ventricular repolarization
 - d) Ventricular depolarization
- 20. Bainbridge reflex denotes relationship between heart rate and
 - a) Venous return
 - b) Force of contraction
 - c) Blood volume
 - d) blood pressure
- 21. Juxta glomerular cells are located in
 - a) Afferent arteriole
 - b) Efferent arteriole
 - c) Distal convoluted tubule
 - d) Collecting duct
- 22. Which mechanism is most effective in returning Blood pressure back to normal
 - a) Baroreceptor reflex
 - b) Chemoreceptor reflex
 - c) Capillary fluid shift
 - d) Long term mechanism

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