



1. Enumerate the properties of the cardiac muscle. Explain the conductivity in brief.
2. Name the Respiratory centers. Explain the Chemical mechanism in regulation of respiration.

SHORT ESSAY

10 X 5 = 50 Marks

3. Draw a neat diagram of the ECG and explain the QRS complex.
4. Explain the changes in blood and respiratory system during Acclimatisation.
5. Define mountain sickness. Explain its effects on digestive, respiratory and nervous system.
6. What is Glomerular filtration rate? Explain four factors affecting GFR.
7. Define micturition. Discuss the mechanism of micturition.
8. Explain the errors of refraction.
9. Describe the tests for Hearing.
10. Explain the mechanical changes in the cardiac cycle.
11. Explain the transfusion reactions due to Rh incompatibility.
12. Explain a Neutrophil with a neat diagram. What are the functions of a Neutrophil?

SHORT ANSWERS

10 X 3 = 30 Marks

13. What is normal WBC count?
14. Outline the composition of lymph.
15. Define a gene and list two functions of a gene.
16. Classify Reticulo-endothelial system.
17. Define diffusion.
18. Mention the importance of PR interval in the ECG.
19. Define osmosis.
20. Mention the layers of skin.
21. Explain the functions of the nucleus of a cell.
22. Define Glomerular Filtration Rate (GFR).

* * * * *