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Draw neat, labeled diagrams wherever necessary.

ESSAY **2 X 10 = 20 Marks**

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1. Classify Leucocytes. Explain the morphology and functions of each type of leucocyte cell.
2. Define blood pressure. State the normal value. Explain the long-term regulation of blood pressure.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Describe the mechanism of humoral immunity.
4. Explain the factors influencing the venous return to the heart.
5. Explain the different modes of transport of carbon dioxide in the blood.
6. Define Acclimatization. Explain the changes taking place in blood and respiratory system during Acclimatization.
7. Mention the lung volumes. Define and write the normal value of each.
8. Explain four factors affecting the glomerular filtration rate.
9. Discuss the buffer systems of the kidney.
10. Name the types of sweat glands. Explain their secretory activity.
11. State the normal body temperature. How it is measured. How the heat loss is prevented from the body.
12. Explain the excitation – contraction coupling in skeletal muscle.

SHORT ANSWERS **10 X 3 = 30 Marks**

13. Mention the difference between active and passive transport.
14. Define osmosis. What is osmotic pressure?
15. Outline the composition of the blood
16. Classify Reticulo-Endothelial cells.
17. Name any six coagulation factors of blood.
18. Define stroke volume and minute volume. Write their normal values.
19. Define asphyxia. Name the stages of asphyxia.
20. What is Hering-Breuer deflation reflex?
21. Define nephron and classify it.
22. Name the nerve supply to the urinary bladder and write their action.

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