



Time: 3 Hours

[Max. Marks : 100]

**PHYSIOLOGY & BIOCHEMISTRY - PAPER I (OS & RS) (RS2 & RS3)**

**QP Code: 1404**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe the stages and factors essential for erythropoiesis.
2. Write a note on the neural regulation of respiration.

**SHORT ESSAY**

**12 X 5 = 60 Marks**

3. Functions of leucocytes
4. Formation and functions of Lymph
5. Lung volumes and capacities
6. Hypoxia- definition and stages
7. Glomerular filtration
8. Juxta- glomerular apparatus
9. Role of kidney in water balance
10. Visual pathway
11. Organ of corti
12. Coronary circulation
13. Ist heart sound [Ist Heart Sound]
14. Mode of transmission of cardiac impulse

**SHORT ANSWERS**

**10 X 2 = 20 Marks**

15. Define light reflex
16. Diffusion – definition
17. Osmosis – physiological importance
18. Golgi apparatus
19. Adipose tissue
20. Any four functions of skin
21. Eccrine sweat glands
22. Any two functions of spleen
23. Distribution of reticulo-endothelial cells
24. Excretory functions of liver

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