

Rajiv Gandhi University of Health Sciences

I Year B.H.M.S Degree Examination – OCT-2019

Time: Three Hours**Max. Marks: 100 Marks**

Physiology and Biochemistry – Paper-I (RS4) **QP Code: 1453**

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

LONG ESSAY**2 X 10 = 20 Marks**

1. Define Erythropoiesis. Describe stages of Erythropoiesis.
2. Define cardiac output. Mention the normal value. Explain the factors influencing cardiac output.

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

3. Name the plasma proteins. Describe four functions of plasma proteins.
4. Mention the normal heart sounds. Describe the first and second heart sound.
5. Explain the mechanism of respiration.
6. Describe the transport of oxygen in the blood.
7. Classify hypoxia. Explain any two types hypoxia.
8. Define the Juxta Glomerular Apparatus. Explain its functions.
9. Explain the mechanism of sodium reabsorption in the renal tubule.
10. Enumerate the functions of skin. Explain any two of them.
11. Explain the mechanism of regulation of the body temperature.
12. Explain the structure and functions of Sarco-tubular system.

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

13. Define diffusion. Mention the factors affecting the diffusion.
14. Outline the mechanism of phagocytosis
15. Enumerate the functions of blood.
16. Mention the functions of spleen.
17. Name the types of T cells. Mention their functions.
18. Mention the conductive system of the heart.
19. What is lung surfactant? Mention its importance.
20. Define dead space. How it is measured.
21. Define Glomerular Filtration Rate. Write its normal value.
22. Sketch the bicarbonate reabsorption by the renal tubule

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