

## Rajiv Gandhi University of Health Sciences

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

Time: Three Hours Max. Marks: 100 Marks

## Physiology & Biochemistry - Paper I - (RS3) OP Code: 1404

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

LONG ESSAY 2 X 10 = 20 Marks

- Define Erythropoiesis? Explain the stages of erythropoieses? Enumerate the factors influencing the erythropoiesis (2+ 6+ 2)
- Name the muscles of respiration? Explain the mechanism of breathing in detail?

## SHORT ESSAY (Answer any ten)

10 X 5 = 50 Marks

- Define Diffusion. What are type's diffusion and factors affecting the diffusion?
- 4. Classify Reticulo-endothelial system. Explain their in detail.
- Describe the synthesis of Hemoglobin? Add a note on the types and their differences
- 6. Define Glomerular Filtration rate? Write in detail the factors influencing Glomerular Filtration rate.
- What is the content of the middle ear? Explain its functions
- Electrocardiogram definition, various leads, waves, segment, intervals and its significance
- Describe the regulation of body temperature
- List the plasma proteins? Classify plasma proteins and describe their functions.
- Explain the counter current mechanism
- 12. Define blood pressure? Write about the long term regulation of blood pressure
- Describe the lung volumes in detail.
- 14. Write a brief note on Microcirculation.

SHORT ANSWERS 10 X 3 = 30 Marks

- 15. What is erythroblastosis fetalis? Write its clinical features
- 16. What is active transport? Write the types with examples
- What is papillary light reflex? Give a schematic representation of its pathway
- Mention the cells of the Juxta glomerular apparatus and list its functions.
- Mention functions mito chondria.
- Enumerate the conductive system of the heart with a neat diagram
- 21. What is dead space? How it is classified? What is the normal value of dead space?
- 22. Enumerate it's the functions of lymph. Mention the conditions where it is increase and decrease.
- 23. What is the normal packed cell blood volume?
- 24. What is the composition of Aqueoushumor?

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