Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 24-Nov-2023 Hours Max. Marks: 80 Marks

Time: Three Hours

PHYSIOLOGY (RS-3)

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy

Technology

RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences Technology)

Q.P. CODE: 3152

(QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

SHORT ESSAYS (ATTEMPT ANY EIGHT)

8 x 5 = 40 Marks

- 1. Discuss the Triple response.
- 2. Describe the mechanism of action of hormones.
- 3. Name two gastrointestinal hormones produced by small intestine and describe their actions.
- 4. What are the types of normal Hb? How are they structurally and functionally different?
- 5. Excitation-contraction coupling
- 6. Define and classify colour blindness.
- 7. Describe the chemical regulation of respiration.
- 8. Give a labeled diagram of Juxta Glomerular Apparatus and explain its functions.
- 9. Explain what is meant by lower motor neuron? Give the features of a lower motor neuron lesion.
- 10. Name the compartments of body fluids and show the percentage distribution. How much is the total body water in a young adult male?

SHORT ANSWERS (ATTEMPT ANY TEN)

10 x 3 = 30 Marks

- 11. Write a note on CSF.
- 12. What is EEG? Name the four types of waves recorded in an EEG.
- 13. Enumerate the functions of Stomach.
- 14. Explain the terms chronotropic and inotropic.
- 15. Draw a diagram of the negative feedback control of growth hormone secretion.
- 16. What is lymph? What are its functions?
- 17. Draw a diagram of a sarcomere and label its parts.
- 18. Name the different types of nephron. List two differences between them.
- 19. List, with the help of diagrams, three errors of refraction.
- 20. Draw a labeled diagram of reflex arc.
- 21. Explain in one sentence: (a) Hypoxia (b) Hering Breuer Reflex (c) Asphyxia.
- 22. Explain counter current system.

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TO THE POINT ANSWERS (ATTEMPT ANY FIVE)

- 23. List three actions of thyroid hormone.
- 24. List two functions of hypothalamic-pituitary axis.
- 25. Ovulation and its hormonal basis
- 26. Define obligatory water reabsorption.
- 27. List two methods of contraception in male.
- 28. Name the respiratory muscles.
- 29. Define Starling's law.

5 x 2 = 10 Marks