Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Allied Health Sciences Degree Examination – 30-May-2024

Time: Three Hours

Max. Marks: 80

PHYSIOLOGY (RS-3)

(RS-3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology RS-2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences Technology)

Q.P. CODE: 3152

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

SHORT ESSAYS (Answer any Eight)

- 1. List the indications for blood transfusion and add a note on precautions to be taken before blood transfusion
- 2. Discuss the chemical regulation of respiration
- 3. What is Cushing's syndrome? Describe its clinical features
- 4. Draw a neat labelled diagram of a neuromuscular junction. Write the steps in transmission of an electrical impulse across it
- 5. Define puberty. List the various pubertal changes seen in males and females
- 6. List and explain the various functions of the hypothalamus
- 7. Describe the composition and regulation of the secretion of gastric juice and its functions
- 8. Define Hypoxia. Enumerate and define the types of hypoxia
- 9. Define anemia. Write the morphological classification of anemia with one example for each type
- 10. Trace the pathway for carrying the sensation of fine touch

SHORT ANSWERS (Answer any Ten)

- 11. What are diuretics? Give two examples
- 12. Define function residual capacity. Write its importance
- 13. Classify Immunity
- 14. What is the normal heart rate? Define tachycardia and bradycardia
- 15. Draw a diagram of the juxta glomerulus apparatus and label its parts
- 16. Draw a neat diagram of a neuron and label its parts
- 17. Write the functions of basal ganglia
- 18. List any three common methods of contraception used in females
- 19. Define stroke volume. Write its normal value
- 20. Name the bile salts and bile pigments present in the bile
- 21. Define menarche and menopause
- 22. List the actions of insulin hormone on carbohydrate metabolism

TO THE POINT ANSWERS (Answer any Five)

- 23. Landsteiner's law of blood grouping
- 24. Write any two functions of receptors
- 25. Name the contractile proteins of the skeletal muscle
- 26. Define all or none property of a nerve fibre
- 27. Write the normal WBC count
- 28. What is myopia and hypermetropia?
- 29. Name any two hormones secreted by kidney

5 x 2 = 10 Marks

10 x 3 = 30 Marks

8 x 5 = 40 Marks