Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 27-Oct-2026

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) **8 x 5 = 40 Marks**

1. Enumerate the properties of cardiac muscle. Add a note on autorhymicity and refractory period
2. Neural regulation of respiration
3. Draw a well labelled diagnosis of NMJ. Discuss the transmission of impulse across the junction
4. Describe the ovarian changes during menstrual cycle
5. Intrinsic mechanism of blood coagulation
6. Describe the dorsal column pathway
7. Actions of thyroid hormone
8. Describe the composition and functions of gastric juice
9. Draw a neat labelled diagram of JG apparatus. Add a note on its function
10. Hazardous of mismatched blood transfusion

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

11. Actions of insulin
12. Tabulate three differences between I and II heart sounds
13. Functions of ADH
14. Functions of thalamus
15. Enumerate the functions of bile salts
16. Functions of middle ear
17. Cushing's syndrome
18. Classify WBCs with a neat labelled diagram
19. Trace the taste pathway
20. Contraceptive methods in females
21. Functions of blood
22. Pharyngeal phase of deglutition

TO THE POINT ANSWERS (Answer any Five) **5 x 2 = 10 Marks**

23. Draw a neat labelled diagram of ECG and write the cause of each wave
24. Define cardiac output. Give the normal value
25. Draw a well labelled diagram of a neuron
26. List any four anticoagulants
27. Organ of Corti
28. Define menopause. Mention any two features
29. Define dead space. Mention the types

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