

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 06-May-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 movements of small intestine. Describe any two
2. Describe neuro-endocrine reflex of oxytocin
3. State Landsteiner's law of blood grouping. Add a note on erythroblastosis foetalis
4. Describe action of parathyroid hormone
5. Draw ECG and explain electrocardiogram with waves and the cause of each wave
6. Define a reflex. Draw the reflex arc. Discuss any three properties of reflex
7. With a neat labelled diagram, explain the defaecation reflex
8. Secondary sexual characters in females
9. Neural regulation of respiration
10. Explain Renin-angiotensin-aldosterone mechanism

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

11. Define oxygen dissociation curve. Add a note on factors affecting curve
12. Give normal values – a) RBC b) WBC c) Platelets
13. Define a) Intra pleural pressure b) Intra alveolar pressure c) Transpulmonary pressure
14. Difference between diabetes mellitus and diabetes insipidus
15. Define and classify immunity
16. Define jaundice. Name three types of jaundice
17. Define cardiac output. Give normal value
18. Function of cerebellum
19. Function of hormone ADH
20. Stages of spermatogenesis
21. Trace the taste pathway
22. Write any three functions of cerebrospinal fluid

TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. Define GFR. Give normal value
24. Function of saliva
25. Contraceptive methods in female
26. What is hyaline distress syndrome?
27. Define blood pressure. Give its normal value
28. Define hypoxia. Classify types of hypoxia
29. Draw neat labelled diagram of neuron
