

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 22-Nov-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)

8 x 5 = 40 Marks

1. Describe the phases of ventricular systole in cardiac cycle
2. Describe the uterine changes during menstrual cycle with its hormonal basis
3. Extrinsic mechanism of blood coagulation. Add a note on anticoagulants
4. Define neuromuscular junction. Describe the events taking place across NMJ
5. Functions of cerebellum
6. Draw a neat labelled diagram of spirogram. Add a note on lung volumes and capacities
7. Chemical regulation of respiration
8. Defecation reflex
9. Define spermatogenesis. Explain the stages in detail
10. Describe the counter current mechanism

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

11. Actions of aldosterone
12. List the properties of receptor
13. Define GFR. Add a note on factors regulating GFR
14. State Landsteiner's law
15. Functions of liver
16. Define deafness. Mention the types
17. Acromegaly
18. Define jaundice. List the types
19. Triple response
20. Functions of skin
21. Define hypoxia. Mention its types
22. List the functions of middle ear

TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. List the anterior pituitary hormones
24. Functions of placenta
25. Name the muscle proteins
26. Draw a neat labelled diagram of Sarcomere
27. List four contraceptive methods in males
28. Define artificial respiration
29. Define blood pressure. Give the normal value
