

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Allied Health Sciences Degree Examination – 14-Dec-2022

Time: Three Hours

Max. Marks: 80 Marks

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 (Answer any Eight)

8 x 5 = 40 Marks

1. Explain the intrinsic pathway of blood clotting.
2. Give the normal value of blood glucose level. Briefly explain how it is regulated.
3. List the functions of CSF. Add a note on lumbar puncture.
4. Complications of mismatched blood transfusion
5. Briefly explain the functions of liver.
6. Define spermatogenesis. Explain the stages of spermatogenesis.
7. Describe the structure of JG apparatus. Explain its functions.
8. Explain the transmission of an impulse across the neuromuscular junction.
9. Draw a neat labeled diagram of oxygen hemoglobin dissociation curve. Explain the factors shifting the curve to right.
10. Explain the mechanical events that occur during the cardiac cycle.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

11. Define anaemia. Name and give cause of any two types of anaemia.
12. Draw and label ECG in lead II.
13. Functions of saliva
14. Cyanosis
15. Vital capacity
16. Functions of oxytocin
17. With the help of a diagram mention the components of reflex arc.
18. Physiological changes during pregnancy
19. Functions of skin
20. Renal threshold of glucose
21. Saltatory conduction
22. Functions of middle ear

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TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. Functions of surfactant
24. List any four hormones secreted by anterior pituitary.
25. Erythrocyte Sedimentation Rate (ESR)
26. Define GFR. Give normal value.
27. Name the contractile proteins of the muscle.
28. Name the contraceptive methods in females.
29. Define cardiac output.
