



Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Allied Health Sciences Degree Examination - 18-May-2023
Max. Marks: 100 Marks

Time: Three Hours

PHYSIOLOGY

(RS-3 – B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology,
Respiratory Care Technology, Neuro Sciences Technology, Anesthesia Technology,
Operation Theatre Technology, Emergency and Trauma Care Technology)

(RS-4 – B.Sc Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology)
Anesthesia and Operation Theatre Technology

Q.P. CODE: 3262

(QP contains two pages)

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

2 x 10 = 20 Marks

LONG ESSAYS (Second Question Choice)

1. Explain oxygen transport in the blood. Describe oxygen dissociation curve.
2. Describe the functions and regulations of secretion of Thyroxine. What are the clinical manifestations of Cretinism?

OR

Name the clotting factors. Describe the intrinsic mechanism of blood coagulation in detail.

10 x 5 = 50 Marks

SHORT ESSAYS (Question No 5 & 10 choice)

3. With a labelled diagram describe micturition reflex.
4. What is mismatched blood transfusion? Write the complications of mismatched blood transfusion.
5. Secondary sexual characteristics in females.

OR

Draw ECG and explain the electrocardiogram (ECG) with wave and intervals.

6. What is receptor? Discuss any three properties of receptor.
7. Mention the contents and functions of middle ear. Explain the tympanic reflex.
8. Differentiate between upper and lower motor neuron lesion.
9. Neural regulation of respiration.
10. Describe the molecular basis of skeletal muscle contraction.

OR

Name the posterior pituitary hormones. Describe their physiological actions.

11. Define hypoxia. Explain the types of hypoxia.
12. Explain the types of blood transfusion.

10 x 3 = 30 Marks

SHORT ANSWER (Question No 15 & 20 choice)

13. What are the differences between isotonic and isometric contractions?
14. List the actions of saliva.
15. Define Jaundice. Name the three types of Jaundice.

OR

Contraceptive methods in males.

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16. Define cardiac output. Give the normal value.
17. Define dead space. List the types of dead space. Give its normal value.
18. Functions of cerebellum.
19. Functions of hormones ADH.
20. Write briefly about artificial kidney.
OR
Organ of Corti.
21. Name any four enzymes present in the pancreatic juice.
22. Mention clinical features of diabetes mellitus.
