

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 14-Dec-2022

Time: Three Hours

Max. Marks: 100 Marks

## 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

### LONG ESSAYS (Second Question Choice)

**2 x 10 = 20 Marks**

1. Describe the two mechanism of blood coagulation. Define anticoagulants. Explain the actions of any two.
2. Describe the origin, course, termination and functions of corticospinal tract (Pyramidal tract) with the help of a labelled diagram.

**OR**

Describe the counter-current mechanism of kidney with the diagram.

### SHORT ESSAYS (Question No 5 & 10 choice)

**10 x 5 = 50 Marks**

3. Define hypoxia. Explain the types of hypoxia.
4. Explain the transmission at neuromuscular junction.
5. With the help of a diagram, briefly describe the defecation reflex.

**OR**

Explain the stages of spermatogenesis. List the factors regulating it.

6. Describe the conducting system of heart with a labelled diagram.
7. Enumerate the posterior pituitary hormones. Write the functions of oxytocin.
8. What are the common errors of refraction and how are they corrected?
9. Actions of thyroid hormone.
10. Describe the formation, circulation, composition and functions of CSF.

**OR**

Explain the phases of deglutition.

11. Tabulate the differences between myelinated and unmyelinated nerve fibers.
12. Explain the mechanism of negative feedback mechanism in hormonal regulation using an example.

### SHORT ANSWER (Question No 15 & 20 choice)

**10 x 3 = 30 Marks**

13. Functions of platelets.
14. Define Blood pressure. Give its normal value.
15. Define synapse. Classify types of synapses.

**OR**

Clinical signs of Hypothyroidism.

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16. Name three function of Placenta.
  17. Functions of Juxta-glomerular apparatus.
  18. Lumbar puncture.
  19. Contractile elements of skeletal muscle.
  20. List any three functions of liver
- OR**
- What is normal ESR? What is its clinical importance?
  21. Draw a labelled diagram of a neuron.
  22. List any four clinical features of Acromegaly.

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