Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 27-Oct-2026

Time: Three Hours **Max. Marks: 100**

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

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. Name the hormones of anterior pituitary gland and explain the actions of growth hormone. Explain the hypersecretion of growth hormone in children
2. Describe the intrinsic mechanism of blood coagulation in detail. Add a note on anticoagulants

   OR

   Describe the changes taking place in endometrium and ovaries during a menstrual cycle

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Mention the contents and functions of middle ear
4. Write a note on the functions of saliva
5. Describe the test for ovulation

   OR

   List the properties of cardiac muscle. Explain in detail refractory period
6. Trace the posterior column tract of the ascending pathway
7. Chemical regulation of respiration
8. Draw a neat labelled diagram of Juxta glomerular apparatus
9. Describe the molecular basis of skeletal muscle contraction
10. With a well labelled diagram explain micturition reflex

    OR

    Secondary sexual characteristics in male
11. Briefly discuss the neural regulation of respiration
12. Describe the functions of basal ganglia. Add a note on Parkinson's disease

SHORT ANSWER (Question No 15 & 20 choice) **10 x 3 = 30 Marks**

13. Draw a neat labelled diagram of neuron
14. List the functions of thalamus
15. Define Shock. Mention the types

    OR

    List the placental hormones
16. Van Den Berg's reaction
17. Define and give corrections for a) Myopia b) Hypermetropia
18. Waves of EEG
19. Define Jaundice. Define the types of Jaundice
20. List any six functions of kidney

    OR

    Define a) Haldane effect b) Bohr's effect
21. Name the four muscle proteins
22. Define a) Apnea b) Dyspnea c) Eupnea

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