Rajiv Gandhi University of Health Sciences, Karnataka I Year B.P.T. Degree Examination – 18-May-2023

Time: Three Hours Max. Marks: 100 Marks

HUMAN PHYSIOLOGY (RS - 5) Q.P. CODE: 2732

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

LONG ESSAYS (Second Question choice)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define cardiac cycle. Discuss the ventricular phases with the help of a graph.
- 2. Explain the role of a triad in skeletal muscle contraction. Add a note on Myasthenia gravis.

Or

Enumerate the descending pathway. Trace pyramidal tracts, write its functions and add a note on Hemiplegia.

SHORT ESSAYS (Question No.3 & 12 choice)

 $10 \times 5 = 50 \text{ Marks}$

3. Define stroke volume. Explain the factors affecting venous rectum.

Or

Define Action Potential. Discuss the ionic basis of Action Potential.

- 4. Describe the functions of bile. What are Cholegogues?
- 5. Describe the stages of Erythropoiesis. With a flow chart outline the factors regulating it.
- 6. Describe the role of collecting duct loop of henle and vasarccta in counter current mechanism.
- 7. Explain the mechanism of spermatogenesis. List three factors influencing it.
- 8. Define hypoxia. Tabulate the features of different types of hypoxias giving examples for each.
- 9. Describe the action of insulin on target cells. Add a note on Diabetes Mellitus.
- 10. Trace the visual pathway. Explain the effects of lesion at different levels of the pathway.
- 11. Briefly outline the structure of Juxta glomerular apparatus and its functions.
- 12. Discuss any five properties of synapse.

Or

With the help of flowchart outline the chemical regulation of respiration.

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 13. What is a motor unit?
- 14. Define Haldane effect.
- 15. Define Homeostasis
- 16. Name the GI hormones
- 17. What is thrombocytopenic purpura?
- 18. Trace the pathway for fine touch.
- 19. Define Anemia. List the types of Anemia.
- 20. Write the normal RBC count and WBC count.
- 21. Define Cvanosis.
- 22. What is End Diastolic Volume'?
