Rajiv Gandhi University of Health Sciences, Karnataka

I Semester B.O.T Degree Examination – 30-May-2024

Time: Three Hours Max. Marks: 100 Marks

Human Physiology – I (RS) O.P. CODE: 3412

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

LONG ESSAYS (Answer any Two)

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

- 1. Define Cardiac output and related normal values. Discuss factors affecting cardiac output
- 2. Discuss structure and function of cell nucleus
- 3. Discuss structure of nephron

SHORT ESSAYS (Answer any Ten)

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

- 4. What is necrosis? Discuss its causes and process
- 5. Discuss characteristics and causes of first heart sound
- 6. Composition and functions of cell membrane
- 7. Discuss functions of blood
- 8. Discuss compliance of lungs with respect to normal values and types
- 9. Functions of saliva
- 10. Define Hemorrhage. Discuss its types and causes
- 11. What is GFR? Discuss factors affecting GFR.
- 12. Define dead space and discuss its types
- 13. Functions of liver
- 14. Discuss Plasmapheresis with respect to its clinical significance and uses
- 15. What is ECG? Enumerate waves of normal ECG with its causes.

SHORT ANSWERS (Answer any Ten)

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

- 16. What is a cell? Discuss general characteristics of cell.
- 17. Draw a neat and labelled diagram showing section of heart
- 18. Steatorrhea
- 19. Define arterial blood pressure and state the related normal values
- 20. Classify Anaemia
- 21. Functions of Platelets
- 22. Define vital capacity, functional residual capacity and total lung capacity
- 23. Crohn's Disease
- 24. Draw a neat and labelled diagram showing events of urine formation
- 25. Discuss properties of WBCs
- 26. Atrial flutter
- 27. Discuss velocity of blood flow and factors maintaining it

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