

Rajiv Gandhi University of Health Sciences, Karnataka

**I Semester B.O.T Degree Examination – 22-
Nov-2024**

Time: Three Hours

Max. Marks: 100

Human Physiology – I (RS)

Q.P. CODE: 3412

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe the composition, functions and regulation of secretion of pancreatic juice.
2. Define hemostasis. Describe the stages of hemostasis. Describe the mechanism of blood coagulation
3. Define systolic and diastolic blood pressure and give their normal values. Explain the baroreceptor reflex mechanism for regulation of blood pressure

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Describe the different stages of phagocytosis
5. Describe the characteristic features of pulmonary circulation
6. Describe the mechanism of formation of urine
7. Enumerate plasma proteins and describe their functions
8. How are heart sounds produced? Mention their characteristics and clinical significance
9. Name the Gastro Intestinal Hormones. Describe the functions of cholecystokinin
10. Juxta glomerular apparatus and its functions
11. Enumerate the properties of cardiac muscle. Explain the importance of long refractory period
12. Enumerate the causes of metabolic acidosis. How is it corrected?
13. Describe the different types of movements of small intestine
14. Classify anemia based on blood indices. Explain any one type of anemia
15. Classify and briefly describe pulmonary function tests in common use

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Nephrotic syndrome
17. Functions of liver
18. Incomplete and complete heart block
19. What is osmosis? Describe its role in body
20. Ventricular events of cardiac cycle
21. Name four renal function tests
22. Explain what is heat stroke?
23. Periodic breathing and its types with examples
24. What is extra cellular fluid (ECF) volume and how is it measured?
25. ESR and its clinical importance
26. Mention the functions of mitochondria and golgi apparatus
27. Functions of HCI in stomach
