

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Optometry Degree Examination - 12-Nov-2025

Time: Three Hours

Max. Marks: 100

GENERAL ANATOMY AND GENERAL PHYSIOLOGY (RS-4)

Section B: GENERAL PHYSIOLOGY– (50 Marks)

Q.P. CODE: 3342

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 3341 and 3342 are to be answered within total duration of 3 hours)

LONG ESSAYS (First Question Choice)

1 x 10 = 10 Marks

1. Describe the functions of the liver, gallbladder and pancreas

OR

What is erythropoiesis? What are the sites of erythropoiesis? List with a diagram the various stages of development of RBC and factors affecting erythropoiesis

SHORT ESSAYS (Question No 5 choice)

5 x 5 = 25 Marks

2. Enumerate the factors involved in the coagulation of blood. Discuss mechanism of blood clotting
3. Discuss mechanism of respiration
4. Discuss measurement of blood pressure and its regulation
5. Differentiate b/w cortical and juxta-medullary nephron. Discuss mechanism of urine formation

OR

Functional areas of brain

6. List hormones of pituitary gland. Briefly explain functions of growth hormone

SHORT ANSWER (Question No. 10 choice)

5 x 3 = 15 Marks

7. Functions of stomach
8. Function of hypothalamus
9. Heart Sounds
10. Mention functions of the kidney

OR

Functions of Bone

11. Define ovulation and fertilization
