

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 21-May-2025

Time: Three Hours

Max. Marks: 100 Marks

HUMAN PHYSIOLOGY (RS5)

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 x 10 = 20 Marks

1. Define erythropoiesis. Explain the stages of erythropoiesis. Add a note on factors affecting the erythropoiesis.
2. What is the serum normal calcium level? Describe the hormones regulating the calcium metabolism.

OR

Define pain. Mention the types of pain. Trace the pain pathway. Add a note on referred pain.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Mention the contents of middle ear and explain the functions of middle ear.

OR

Classify body fluid compartment. Give their normal values. Mention any one method to determine ECF.

4. Enumerate the functions of Plasma Proteins.
5. Explain the Conducting system of heart.
6. Draw a labeled spirogram. Mention the normal values of any lung volumes.
7. Define GFR. What is its normal value? Explain the forces acting the glomerulo Capillary membrane.
8. Movements of small intestine
9. Functions of bile
10. Cushing's syndrome
11. Explain the endometrial changes seen in menstrual cycle.
12. Explain the reflex arc with the help of a diagram.

OR

Difference between upper motor and lower motor neuron lesion

SHORT ANSWERS

10 x 3 = 30 Marks

13. What is surfactant?
14. Functions of mitochondria
15. Define hypoxia. Name the types of hypoxia.
16. Define Tone.
17. Define Jaundice. Name the three types of jaundice.
18. List 4 functions of stomach.
19. List the functions of saliva.
20. Enumerate difference between active and passive transport.
21. List the contraceptive methods used in females.
22. Define cyanosis and mention the types of cyanosis.
