

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 30-May-2024

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 x 10 = 20 Marks

1. Explain excitation – contraction coupling in skeletal muscle. Add a note on sarcomere.
2. Explain ovarian and uterine changes during menstrual cycle.

Or

Describe the mechanism of urine formation. Add a note on artificial kidney.

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Explain briefly about oxygen transport.

Or

Discuss briefly about synaptic transmission.

4. Write about composition, formation, circulation and functions of CSF.
5. Explain functions of middle ear.
6. Discuss actions of growth hormone.
7. Describe the functions of leukocytes.
8. Define spermatogenesis and explain. Add a note on factors affecting it.
9. Give brief account on triple response.
10. Trace gracile and cuneate tract and explain its functions.
11. Explain properties of cardiac muscle.
12. Describe defecation reflex.

Or

How heart rate is regulated.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Briefly outline juxta glomerular apparatus.
14. Define Bell Magendie law.
15. What is Haemophilia?
16. Differentiate between diabetes mellitus and diabetes insipidus.
17. Name any three enzymes present in pancreatic juice and list their actions.
18. List any three contraceptive methods used in females with their action.
19. What is Hamburger phenomenon?
20. Strength duration curve.
21. Name the junctional tissues of the heart with the help of diagram.
22. List the functions of kidney.
