

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – September 2014

Time: Three Hours

Max. Marks: 100 Marks

HUMAN PHYSIOLOGY (RS-3 & RS-4)

Q.P. CODE: 2702

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. With the graph of pressure changes explain the mechanics of ventilation
2. Give the formation, circulation and functions of CSF. Add a note on lumbar puncture
3. Define motor unit. Describe its relation to muscle contraction

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 Marks

4. Explain the functions of saliva
5. Briefly describe the regulation of GFR by the kidney
6. Describe the features of motor homunculus
7. Discuss the factors regulating erythropoiesis
8. Enumerate the functions of bile
9. Discuss the physiological action of thyroid hormone
10. Draw and label the normal ECG waves. Write the cause for each wave
11. Describe the functions of thrombocytes
12. Explain the phases in the regulation of gastric juice secretion
13. Enumerate the posterior pituitary hormones. Write the functions of oxytocin
14. Define puberty. Enumerate secondary sexual characteristics in female
15. Trace the pathway for fine touch
16. What is sleep? Differentiate between REM and NREM sleep
17. Describe the mechanisms by which the body adjusts to cold environment

SHORT ANSWERS

10 x 2 = 20 Marks

18. Hormonal basis for ovulation
19. What are anti-coagulants. List four anti-coagulants
20. What is acclimatization
21. Functions of oligodendrocytes
22. Draw a neuron and label its parts
23. Define jaundice. List the types of jaundice
24. Define a sarcomere
25. What is referred pain? Give two examples
26. Define shock. Name the types of shock
27. Functions of (a) Ribosomes (b) Mitochondria
