

Rajiv Gandhi University of Health Sciences, Karnataka

Year **B.P.T.** Degree Examination — SEP -2016

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. Answer all questions

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Define cardiac cycle. What is its normal duration? Describe the left ventricular pressure changes during one cardiac cycle.
2. Describe the neural regulation of respiration with neat labelled diagram. Add a note on Hering Breuer's reflex.
3. Explain the sliding filament theory of muscle contraction and list the contractile proteins of the skeletal muscle.

SHORT ESSAYS (Answer any Twelve)**12 x 5 = 60 Marks**

4. Define and classify anemia. Give the cause and symptoms of Pernicious anemia.
5. Briefly describe the actions of Growth hormone.
6. Trace and explain the pathway for fine touch
7. Explain the hormonal regulation of normal blood calcium level.
8. Describe the mechanism of reabsorption of glucose in the renal tubule.
9. Give an account of circulation and functions of CSF.
10. Define Action Potential. Draw and label different phases of action potential giving ionic basis for each.
11. What is effective Filtration Pressure? Give its normal value. State how this value is achieved.
12. Name the types of Deafness and write the tests to differentiate them,
13. Give an account of different phases or regulation of gastric juice secretion.
14. Briefly describe the changes occurring in females at Puberty.
15. Differentiate cell mediated immunity from humoral immunity
16. Briefly explain the metabolic actions of Growth hormone.
17. Give an account of Micturition reflex in man

10 x 2 = 20 Marks

18. Draw and label strength-duration curve.
19. Write the functions of Sertoli cells.
20. Write a note on Facilitated diffusion with example.
21. What is Cholegogue? Give an example.
22. What is Haemophilia? How it is caused?
23. Define and write the cause for Acromegaly.
24. Write a note on entero-hepatic circulation.
25. What is Atonic bladder? How it is caused?
26. Draw and label Cystometrogram.
27. Give the cause and correction for Myopia.