

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B. Pharm Degree Examination – 04-Jan-2020

**Time: Three Hours****Max. Marks: 70 Marks****HUMAN ANATOMY AND PHYSIOLOGY (RS - 4)****Q.P. CODE: 2625**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

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

1. Explain systemic, pulmonary, coronary blood circulation.
2. What is ANS? Explain the anatomical and physiological differences between sympathetic and parasympathetic nervous system.
3. Explain the structure of Ear and physiology of hearing and equilibrium.

**SHORT ESSAYS (Answer Any Six)****6 x 5 = 30 Marks**

4. What is joint? Classify joints with examples.
5. Mention the meninges. Write the composition and functions of Cerebro spinal fluid.
6. Write the hormones and functions of male and female reproductive system.
7. Explain the digestion of carbohydrates, proteins and fats.
8. Explain the structures of epithelial tissues with one example each.
9. Explain the structure and functions of testes.
10. Write the physiology of micturition.
11. Write brief note ABO system of blood grouping.

**SHORT ANSWERS****10 x 2 = 20 Marks**

12. Mention the functions of placenta.
13. Name the hormone secreted by the auricles of the heart and its function.
14. What are goblet cells?
15. Name the hormones of adrenal cortex.
16. Define- Addison's disease and Crushing Syndrome.
17. Define- Osteoporosis, arthritis.
18. Write the differences between striated and non-striated muscles.
19. Classify leucocytes.
20. What is Myasthenia gravis? Mention contractile proteins.
21. Functions of lysosome

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