

Human+Physiology

Rajiv Gandhi University of Health Sciences, Karnataka I Year B.P.T. Degree Examination - Sep 2012

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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define cardiac output. Describe the factors that regulate cardiac output
- 2. With a well labeled graph discuss the ionic basis of action potential
- 3. Name the respiratory centres. Explain the neural regulation of respiration

SHORT ESSAYS (Answer any Twelve)

 $12 \times 5 = 60 \text{ Marks}$

- 4. Enumerate the functions of saliva
- 5. Briefly describe the regulation of GFR by the kidney
- 6. Define hypoxia. Differentiate the types of hypoxia
- 7. Describe the features of sensory homunculus
- 8. Enumerate the functions of liver
- 9. Briefly outline the contraction cycle of a skeletal muscle
- 10. Explain the functions of middle ear
- 11. Draw and label the normal ECG waves. Enumerate its uses
- 12. With the help of strength duration curve, explain rheobase and chronaxie
- 13. Explain the phases of gastric juice secretion
- 14. List the functions of plasma proteins
- 15. Define menopause. Enumerate its important features
- 16. What is Landsteiner's law? Explain its applications in the ABO and Rh system
- 17. Discuss the physiological action of cortisol

SHORT ANSWERS $10 \times 2 = 20 \text{ Marks}$

- 18. Name 4 contraceptive methods in male
- 19. What are anti coagulants. List any four anti coagulants
- 20. List the primary taste sensations. Locate their area on the tongue
- 21. Define saltatory conduction in a nerve fibre
- 22. What is myasthenia gravis
- 23. What is apex beat? Mention its clinical significance.
- 24. Define a muscle tone
- 25. What is referred pain? Give two examples
- 26. Define shock. Name the types of shock
- 27. Define physiological dead space
