

Rajiv. Gandhi University of Health Sciences, Karnataka
I Year B.P.T. Degree Exzmination - SEP -2016

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. Discuss the mechanics of ventilation with a graph showing the pressure changes.
2. What is reflex and a reflex arc? Discuss the properties of reflexes.
3. Define Action Potential. With a well labeled graph explain the ionic basis of Action Potential

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

4. Define GMM. Enumerate the factors affecting GFR and explain any two.
5. Explain the factors affecting erythropoiesis
6. Enumerate the properties of cardiac muscle. Explain **the property of refractory** period
7. **Discuss** the neural regulation of respiration
8. Briefly describe the pharyngeal phase **of** deglutition
9. Differentiate between REM and NREM sleep
10. State Landsteiner's Law. Enumerate the uses of blood grouping
11. Trace the pathway for fine touch
12. Describe the body mechanisms by which it tolerates hot environment
13. Define arterial blood pressure. Discuss the immediate regulation of blood pressure.
14. Differentiate between Obligatory and Facultative processes of water reabsorption
15. What is myasthenia gravis? Describe its cause and characteristic features
16. Action of thyroid hormone
17. How is image formation altered in myopia and hypermetropia? **HOW** do you correct them?

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

18. State Starling's law of force of contraction
19. Methods of contraception in males
20. Functions of ribosome
21. Write any two differences between rods and cones
22. List **the** actions of calcitonin
23. _____ Surfactant It
24. **what is** a sarcomere?
25. Define dead space. Mention the types of dead space

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- 26. Draw and label **the** normal ECG waves
- 27. Define saltatory conduction

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