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Rajiv Gandhi University of Health Sciences, Karnataka

## **Time: Three Hours**

# HUMAN PHYSIOLOGY (RS-3 & RS-4) Q.P. CODE: 2702

I Year B.P.T. Degree Examination - SEP-2018

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. Define arterial blood pressure. Explain the mechanisms involved in its regulation.
- 2. What is CSF? Enumerate its functions. Add a note on lumbar puncture.
- 3. Draw a labelled diagram of neuro-muscular junction and explain the steps involved in the transmission of impulses.

## SHORT ESSAYS (Answer any Twelve)

- 4. Describe the regulation of secretion of gastric juice in different phases of secretion.
- 5. Discuss the counter-current mechanism of renal system.
- 6. Briefly describe the stages of Erythropoiesis. Enumerate the non-dietary factors.
- 7. Describe the body mechanisms by which it tolerates hot environment.
- 8. List the properties of Cardiac muscle. Explain any two of them.
- 9. Give a brief account of chemical regulation of respiration.
- 10. Define chronaxie and rheobase. Draw a diagram of strength-duration curve.
- 11. Describe the immunological tests of pregnancy.
- 12. Enumerate the posterior pituitary hormones. Discuss the physiolggical action of each.
- 13. Draw a Spirogram. Explain Timed Vital Capacity and give its significance.
- 14. List the four functions of the middle ear. Explain any one.
- 15. What is a synapse? List the different types of synapse and discuss any four properties.
- 16. Enumerate the functions of basal ganglia.
- 17. What is color vision? How do you test it clinically? Classify color blindness.

# **SHORT ANSWERS**

- 18. Define the term renal clearance giving its formula.
- 19. Enumerate any four functions of liver.
- 20. Differentiate between Exocytosis and Endocytosis.
- 21. Define dead space. Define the types of dead space.
- 22. What is a motor unit? Draw a neat labelled diagram.
- 23. Functions of Nucleus and Microfilaments
- 24. Define peripheral resistance. Enumerate its factors.
- 25. Name any four neuro-muscular blockers.
- 26. What is MCV? Give its normal value.
- 27. What is the mechanism of actions of neurocrine, autocrine and endocrine?

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### 12 x 5 = 60 Marks

10 x 2 = 20 Marks

Max. Marks: 100 Marks