

Rajiv Gandhi University of Health Sciences, Karnataka**I Year B.P.T. Degree Examination — SEP-2018****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. Explain excitation contraction coupling in skeletal muscle.
2. Define hemostasis. Mention the stages of hemostasis. Describe the mechanism of blood coagulation.
3. Define Blood Pressure. Explain the Baroreceptor reflex mechanism of regulation of Blood Pressure.

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

4. Name the Refractive Errors of eye and its correction
5. Draw a labeled diagram of Juxta Glomerular Apparatus. Add a note on its functions.
6. Enumerate the functions of Oxytocin.
7. What is deglutition? Name the stages. Explain the second stage of deglutition.
8. Describe the different modes of oxygen transport in the body. Draw oxygen hemoglobin dissociation curve.
9. What is erythropoiesis? Describe the stages of erythropoiesis with neat labeled diagram.
10. Describe neuro-muscular junction with a neat labeled diagram.
11. Enumerate the functions of Hypothalamus.
12. Explain the features of Diabetes mellitus.
13. Functions of Testosterone
14. Define synapse. Explain five properties of synapse.
15. Explain with example negative feedback mechanism.
16. Strength Duration Curve
17. Define cardiac output, Name the factors influencing the cardiac output

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

18. Draw a labeled diagram of ECG recording in lead II. Give the normal value of PR Interval.
19. Define isotonic and isometric contraction. Give one example of each.
20. Functions of surfactant
21. Name the anterior pituitary Hormones.
22. Define Jaundice. Name the three types of jaundice.
23. Define GFR. What is its normal value?
24. Name 3 anticoagulants and explain its mechanism of action.
25. List the functions of saliva.
26. Enumerate difference between active and passive transport.
27. List the contraceptive methods used in females.