

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - 04-Mar-2021

Time: Three Hours**Max. Marks: 100 Marks****HUMAN PHYSIOLOGY (RS3 & RS4)****Q.P. CODE: 2702**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAYS (Second Question Choice)**2 x 10 = 20 Marks**

1. Draw a diagram showing the nerve supply to the heart and explain short term regulation of blood pressure.
2. Explain the molecular basis of skeletal muscle contraction.

OR

Explain the physiological actions of thyroid hormone and add a note on its disorders.

SHORT ESSAYS (Question No 3 & 12 choice)**10 x 5 = 50 Marks**

3. Brief note on surfactant.

OR

Factors affecting Glomerular Filtration Rate.

4. Composition and functions of gastric juice.
5. Functions of platelets.
6. Trace the taste pathway.
7. Functions of blood.
8. Stages of spermatogenesis.
9. Dark adaptation.
10. Functions of plasma proteins.
11. Two contraceptive methods in females.
12. Movements of small intestine.

OR

Describe any two types of hypoxia.

SHORT ANSWERS**10 x 3 = 30 Marks**

13. Define Mean corpuscular volume. Give its normal value.
14. Hormones secreted by adrenal cortex.
15. Packed cell volume.
16. Define shock and enumerate the types of shock.
17. Draw the diagram of normal Electro Cardiogram (ECG) and label the parts.
18. Renal threshold for glucose.
19. In vivo anticoagulants.
20. Name various lung volumes and capacities.
21. Name the components of reflex arc.
22. List the functions of white blood cells.