Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - 25-Jan-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. Describe the various stages of erythropoiesis and the various factors influencing it.
2. Describe the mechanism of transmission of nerve impulse across the neuromuscular junction.

OR

Trace the pathway for pain sensation. Add a note on Gate theory of pain and referred pain.

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

3. What are the contents and functions of the middle ear?

OR

Explain the immunological test for pregnancy.

4. Tabulate the differences between I and II heart sounds.
5. Describe the different phases of action potential and its ionic basis
6. Explain the extrinsic mechanism of blood clotting. Add a note on anticoagulants.
7. Explain the movements of small intestine.
8. Explain the renal function tests.
9. Describe the functions of saliva.
10. Describe Wallerian degeneration.
11. Describe the neural regulation of respiration.
12. Enumerate the action of insulin on carbohydrate metabolism. Add a note on Diabetes Mellitus.

OR

What is periodic-breathing? Explain the types of periodic - breathing.

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

13. Draw a labeled diagram of ECG and give the causes of each wave
14. Name the hormone responsible for milk ejection reflex
15. List three methods of contraception in the female
16. Define GFR. Give its normal value
17. List two differences between red and white muscles
18. List the ascending tracts and the sensations carried by them
19. List any three errors of refraction and their corrections
20. List two function of liver
21. List any four functions of skin.
22. List the various methods of artificial respiration