

## Rajiv Gandhi University of Health Sciences, Karnataka

### I Year B.Sc. Allied Health Sciences Degree Examination – OCT-2019

**Time: Three Hours****Max. Marks: 80 Marks****PHYSIOLOGY**

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology  
RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal  
Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences  
Technology)

**Q.P. CODE: 3152****(QP contains two pages)**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary

**SHORT ESSAYS (Answer any Eight)****8 x 5 = 40 Marks**

1. Explain the intrinsic mechanism of coagulation. Write the mechanism of action of any two Anticoagulants.
2. Briefly describe the property of refractory period in a cardiac muscle.
3. Enumerate the neuroglial cells and mention any two functions of each.
4. Functions of stomach
5. Write a note on transfusion reaction.
6. Chemical regulation of respiration.
7. Explain the micturition reflex.
8. Enumerate the functions of Aldosterone.
9. Trace the pyramidal pathway
10. Explain the counter current mechanism.

**SHORT ANSWERS (Answer any Ten)****10 x 3 = 30 Marks**

11. Define EEG. Name the waves of EEG.
12. Draw spirogram and label it.
13. Name the components of the conducting system of the heart.
14. Trace the olfactory pathway
15. Differentiate between isometric contraction and isotonic contraction
16. Fibrinolysis
17. Functions of Surfactant
18. Enumerate the functions of thalamus.
19. Organ of corti
20. What is Eosinophilia? List the causes.
21. Define menopause. Write any two features.
22. Define synapse and mention types of synapse.

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### TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. What is MHC? Give its normal value.
24. Define artificial kidney.
25. Define Anemia.
26. Define Vital capacity.
27. Define cyanosis.
28. Reflex action
29. Draw an ECG. Mention the cause of each wave.

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