

# Rajiv Gandhi University of Health Sciences

## I Year B.H.M.S Degree Examination – OCT-2019

**Time: Three Hours****Max. Marks: 100 Marks**

### **Physiology and Biochemistry – Paper-II (RS4)** **QP Code: 1454**

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

**LONG ESSAY****2 X 10 = 20 Marks**

1. What are catecholamines? Explain the synthesis, metabolism, actions, and regulation of secretion of catecholamines.
2. What is Krebs's citric acid cycle? Enumerate the steps of Citric acid cycle and add a note on its bioenergetics.

**SHORT ESSAY****10 X 5 = 50 Marks**

3. Explain the functions of bile salts.
4. Describe the intestinal phase of gastric secretion.
5. Explain the exocrine functions of pancreas.
6. Describe the structure, functions and the hormones secreted by Placenta.
7. Enumerate the functions of limbic system.
8. What is reflex? Classify reflexes.
9. Indicate the effects of lesions at different levels of optic pathway.
10. Write a detailed note on Tetany.
11. Explain beta-oxidation of fatty acids. Add a note on its energetic.
12. Write the significance of HMP (Hexose Monophosphate shunt).

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

13. What is salutatory conduction? Mention its importance and advantages.
14. Define Neuroglia. Classify Neuroglia cells.
15. Write the functions of Rods and Cones.
16. Explain light adaptation.
17. What is the fate of oestrogen and progesterone?
18. Write a note on Male climacteric.
19. Define Nutrition.
20. Essential amino acids
21. Mention the biological value of proteins.
22. Explain the absorption of Vitamin B12.

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