

# Rajiv Gandhi University of Health Sciences

Ph.D Entrance Examination – MARCH-2019

Time: 90 Minutes

Max. Marks: 50 Marks

**Faculty: Medical**  
**Subject: Biochemistry**  
**PAPER – II**  
**Q.P. CODE: M003**

Your answers should be specific to the questions asked.

**Answer All the Following Questions**

**10 X 05 = 50 Marks**

1. How will you experimentally determine metabolic turnover of a substrate?
2. Differentiate between sensitivity and specificity of a test.
3. What are experimental approaches to differentiate apoptosis and necrosis?
4. Mention briefly different types of PCR.
5. Define antibody specificity. Explain the principles of antigen-antibody interactions and the role of law of mass action in antigen-antibody binding.
6. Discuss the advantages and disadvantages of utilizing molecular diagnostics in the clinical laboratory.
7. A single chain protein is having molecular weight of 69kDa. Calculate approximate number of amino acids present in the protein.
8. What is POCT?
9. "Recombinant DNA technology is required for selective amplification of a particular gene" Explain.
10. Indicate the chemical composition and methods of separation of plasma lipoproteins

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