

Rajiv Gandhi University of Health Sciences, Karnataka
M.D. Degree Examination – 12-Nov-2019

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

BIOCHEMISTRY - PAPER- I
BIO-ORGANIC AND BIOPHYSICAL CHEMISTRY,
BIOCHEMICAL TECHNIQUES

Q. P. CODE: 7315

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

Answer All The Questions**10 x 10 = 100 Marks**

1. What are radioactive isotopes? What is half life of an isotope? Give examples. What are the applications of isotopes in medicine?
2. Describe the structure and functions of different types of RNA. Add a note on biologically important nucleotides.
3. Proteoglycans
4. Flame photometry – principle and applications.
5. Principle and applications of thin layer chromatography.
6. Henderson - Hassel Balch equation and its applications in laboratory medicine.
7. Biochemical markers of sub-cellular organelles.
8. Explain the principle and application of Chemiluminescence.
9. Isoelectric focusing
10. Write the principle and applications of Enzyme linked immunosorbent assay (ELISA)
