

148-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA  
M.D. DEGREE EXAMINATION – NOVEMBER, 2016

**BIOCHEMISTRY**

Paper-I: Physical chemistry and organic chemistry.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Principle application and instrumentation of Immunoelectrophoresis
  - 2) Explain the methods of detection and measurement of radioactivity
  - 3) Structure – function relationship of hemoglobin
  - 4) Transport systems across the membrane
  - 5) Synthesis and applications of monoclonal antibodies
  - 6) Cell cycle
  - 7) High energy compounds
  - 8) Explain the factors affecting enzyme activity
  - 9) DNA sequencing methods
  - 10) Explain biological significance of glycosaminoglycans with examples
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