

Q.P.CODE:148-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – **APRIL, 2019****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

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Explain structural organization of chromosome
 - 2) Protein sequencing techniques
 - 3) Explain structure function relationship of mucopolysaccharides
 - 4) Principle instrumentation and applications of ion exchange chromatography
 - 5) Explain the principle, instrumentation, procedure and application of southern blotting
 - 6) Cell fractionation
 - 7) Explain the structure and biological significance of four hetero polysaccharides with examples
 - 8) Describe the blood buffers.
 - 9) Acute phase proteins
 - 10) Ion-selective electrodes
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