

Q.P.CODE:149-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – **APRIL, 2018**

BIOCHEMISTRY

Paper-II : Chemistry and Metabolism.

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 one carbon metabolism and its significance in detail.
- 2) What are the markers of oxidative stress and what are the various methods used to estimate them?
- 3) Explain the regulation of glycogen metabolism in detail.
- 4) Explain haem catabolism in detail. Add a note on congenital jaundice and their causes.
- 5) Explain the process of detoxification in human body in detail.
- 6) Explain hexose mono phosphate shunt pathway and its applications
- 7) Explain lipogenesis and lipolysis and their regulation in detail.
- 8) Explain regulation of gene expression in eukaryotes in detail.
- 9) Disorders of urea cycle
- 10) How are odd chain fatty acids oxidized in body and what are the inborn errors of metabolism associated with it.
