

Q.P.CODE:149-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA
M.D. DEGREE EXAMINATION – MAY, 2017

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 biological significance of free radicals and antioxidants
- 2) Phenylketonuria – biochemical defect, clinical presentation and laboratory evaluation
- 3) Lens metabolism and its significance
- 4) HMP shunt pathway and its significance
- 5) Metabolic adaptations during starvation
- 6) Explain the formation and significance of special compounds of glycine
- 7) Sphingolipidosis – explain any 4 types
- 8) Explain DNA replication in eukaryotes
- 9) Blood glucose regulation
- 10) Explain the components and functions of fatty acid synthase complex
