

C.U.SHAH UNIVERSITY

(Academic Year: 2014–15, University Examination) (Theory)

Class: - B.Pharm IV SEM.

Subject:- Pharmaceutical Biochemistry-II

Subject Code :4PS04PBC2

Time:-3.00Hr

Total Marks: - 70.

Section –I

- Q.1 a Write note on Hypopigmentation (2)
b What is alkaproteinuria (2)
c Write the biological importance of peptide. (3)
- Q.2 a Give the brief explanation of metabolism of methionin. (5)
b Write note on formation of bile pigments. (5)
c Write the names of inhibitors of purine synthesis and its significance. (4)

OR

- Q.2 a Describe structure of DNA in details. (5)
b What are the types of RNA? Give brief notes on RNA. (5)
c Describe protein synthesis in details. (4)
- Q.3 a Write in brief about urea cycle and its importance. (5)
b Write the synthesis of melanin and its disorder. (5)
c Explain brief tertiary and quaternary structure of amino acid. (4)

OR

- Q.3 a Write the mechanism of transamination and its importance. (5)
b Explain degradation of tyrosin and writes its disorder. (5)
c **Write metabolic disorder of urea cycle.** (4)

Section –II

- Q.4 a Define enzyme and Co enzyme. (3)
b Write the name enzymes involved in biological oxidation (2)
c Explain denaturation of proteins (2)
- Q.5 a Write notes on polymerase chain reaction (PCR). (5)
b Write note on Gene expression. (5)
c Write the short notes on genetic code. (4)

OR

- Q.5 a Write the significance of transmethylation of sulphur amino acid. (5)
b Write note on metabolism of creatinin. (5)
c Write the physical and chemical properties of amino acid. (4)
- Q.6 a Write the mechanism of oxidative phosphorylation and its importance. (5)
b Explain in brief structure of protein. (5)
c Write note on centrifugation technique (4)

OR

- Q.6 a Explain electron transport system in brief. (5)
b Explain biosynthesis of purine nucleotide and its importance. (5)
c Explain Production of ATP and its Biological Significance (4)