

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Pharmaceutical Biochemistry-II

Subject Code: 4PS04PBC2

Branch: B.Pharm

Semester: 4

Date: 24/04/2017

Time: 10:30 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
-

- Q-1 Explain the following terms (14)
- | | |
|----------------|------------------------------|
| a. Coenzymes | e. RNA |
| b. Isoenzyme | f. Centrifugation |
| c. Nucleotides | g. Oxidative Phosphorylation |
| d. Gene | |

Attempt any four questions from Q-2 to Q-8

- Q-2 a. Give brief Account on electrophoresis techniques used in biochemistry (07)
b. Write the role of telomerase in DNA replication in details. (07)
- Q-3 a. Explain in details structural organization of respiratory chain. (07)
b. Explain urea cycle and its significance. (07)
- Q-4 a. Give brief account on genetic engineering (07)
b. What is porphyrin. Explain in details about porphyrin biosynthesis (07)
- Q-5 a. Explain in details purine biosynthesis (07)
b. Classify enzyme involved in biological oxidation and explain any two. (07)
- Q-6 a. Explain the mechanism of oxidative phosphorylation (07)
b. Write the name of DNA repair mechanism and explain double strand break repair. (07)
- Q-7 a. Write the name of Regulating stages of gene expression and explain in brief. (07)
b. Give in details account on characteristics of genetic code. (07)
- Q-8 a. Explain brief tertiary and quaternary structure of amino acid. (07)
b. Explain biosynthesis of cystein and its significance. (07)

