

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name: Pharmaceutical Biochemistry II**

**Subject Code: 4PS04PBC2**

**Branch: B. Pharm**

**Semester: 4**

**Date: 05/05/2018**

**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.
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**Q-1 Explain the following terms:**

**(14)**

- |                         |                                  |
|-------------------------|----------------------------------|
| a. Genetic code         | h. Hyperbilirubinemia            |
| b. Bioenergetics        | i. Co-enzyme                     |
| c. Centrifugation       | j. Give the name of purine base? |
| d. Nucleotide           | k. Recombinant DNA               |
| e. Enzyme               | l. Vector                        |
| f. Chromatography       | m. Electrophoresis               |
| g. Biological oxidation | n. Give the name of nucleic acid |

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

- Q-2**
- a. Describe in detail about mechanism of oxidative phosphorylation **(07)**
  - b. Give brief account on structural organization of electron transport chain **(07)**
- Q-3**
- a. Give a brief account on steps include in DNA replication **(07)**
  - b. Describe in detail about protein synthesis **(07)**
- Q-4**
- a. Classify electrophoresis techniques. Write a short note on gel electrophoresis **(07)**
  - b. Give brief account on urea cycle with its significance **(07)**
- Q-5**
- a. Classify the types of RNA. Describe in detail about RNA synthesis **(07)**
  - b. Describe in detail about transamination and oxidative deamination process **(07)**
- Q-6**
- a. Describe in detail about structure of DNA **(07)**
  - b. Classify DNA repair mechanism. Explain double strand break repair mechanism **(07)**
- Q-7**
- a. Write the name of regulating stages of gene expression and explain in brief **(07)**
  - b. Give brief account on chromatography techniques used in biochemistry **(07)**



- Q-8 a.** Describe in details about purine biosynthesis **(07)**
- b.** What is porphyrin? Describe in details about heam biosynthesis **(07)**

