

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

**Subject Name: Pharmaceutical Biochemistry II**

**Subject Code: 4PS04PBC2**

**Branch: B. Pharm**

**Semester: 4**

**Date:31/10/2018**

**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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<b>Q-1</b>	<b>Define the following terms:</b>	<b>(14)</b>
	a) Transamination	(1)
	b) Oxidative Phosphorylation	(1)
	c) Genetic code	(1)
	d) Replication	(1)
	e) Mutations	(1)
	f) Bile Pigments	(1)
	g) Spectrophotometry	(1)
	h) Bioenergetics	(1)
	i) Allosteric enzyme	(1)
	j) Co enzyme	(1)
	k) Chromatography	(1)
	l) Centrifugation	(1)
	m) Electrophoresis	(1)
	n) Enzymes	(1)

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

<b>Q-2</b>		<b>(14)</b>
	a Explain in detail the electron transport chain.	(7)
	b Describe protein synthesis process with the help of RNA synthesis.	(7)
<b>Q-3</b>		<b>(14)</b>
	a Discuss in detail the structure of DNA.	(7)
	b Describe in detail the DNA repair process.	(7)
<b>Q-4</b>		<b>(14)</b>
	a Describe in detail about urea cycle.	(7)
	b Give a Brief introduction of genetic organization of the mammalian genome.	(7)



- Q-5** (14)
- a Write the biological significance of ATP and Cyclic AMP. (7)
  - b Explain in details about factors affecting enzyme activity. (7)
- Q-6** (14)
- a Classify enzyme inhibition in Brief. (7)
  - b Explain Biological oxidation, enzymes and co-enzymes involved in oxidation Reduction and its control. (7)
- Q-7** (14)
- a Give a Brief on extraction and purification Techniques of proteins and nucleic acids. (7)
  - b Define oxidative phosphorylation, give mechanism of oxidative phosphorylation. (7)
- Q-8** (14)
- a Give a Brief account of genetic engineering and polymerase chain reactions. (7)
  - b Explain Regulation of gene expression. (7)

