Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY
Summer Examination-2016

Subject Name: Botany-II

Subject Code: 4SC02BOC1 **Branch: B.Sc.(Chemistry)**

Semester: 2 **Date: 13/05/2016** **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 **Attempt the following questions:** **(14)**

a) State the differences between D-Ribose and D-2-Deoxyribose.
b) DNA is polymer of deoxyribonucleic acid. True or False?
c) In which year DNA structure was discovered?
d) What are chromosomes?
e) What are Glycolipids?
f) What is the system of representation of nucleotide for amino acid synthesis?
g) What are lipoproteins?
h) Which are fat soluble vitamins?
i) What is the role of ligase in replication?
j) What is nucleoside?
k) Define vascular bundle.
l) Define translation.
m) Draw schematic representation of a nucleotide.
n) Define mechanical tissue.

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

Q-2 **Attempt all questions** **(14)**

A	Define process of Initiation in replication.	**4**
B	Draw structure of a Nucleotide.	**5**
C	Draw structure of a RNA unit.	**5**

Q-3 **Attempt all questions** **(14)**

Write a note on Mitosis. Enlist different steps with detailed information and labeled figures.

Q-4		**Attempt all questions**	**(14)**
		Describe in detail: Cell Cycle.	
Q-5		**Attempt all questions**	**(14)**
	A	Enlist Nitrogenous bases of DNA. Draw their structures.	**7**
	B	Enlist Nitrogenous bases of RNA. Draw their structures.	**7**
Q-6		**Attempt all questions**	**(14)**
	A	Briefly describe involvement of different RNA molecules in Process of Protein synthesis.	**7**
	B	Describe various abnormal chromosomes by giving example of any two.	**7**
Q-7		**Attempt all questions**	**(14)**
	A	Write a note on classification of Vitamins.	**7**
	B	Write a note on classification of Amino acids.	**7**
Q-8		**Attempt all questions**	**(14)**
	A	What are proteins and explain classification of structure of proteins.	**7**
	B	Briefly describe Ultra structure of plasma membrane and draw a labeled figure.	**7**