

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.
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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 Describe in detail: Cell Cycle.	(14)
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

