

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Botany-II

Subject Code: 4SC02BOC1

Branch: B.Sc.(Chemistry)

Semester: 2

Date: 12/05/2017

Time: 02:00 To 05:00

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 DNA and RNA. | 1 |
| b) | DNA is polymer of deoxyribonucleic acid. True or False? | 1 |
| c) | What is the function of cell wall? | 1 |
| d) | What are chromosomes? | 1 |
| e) | Enlist the various forms of RNA. | 1 |
| f) | Enlist the various stage of cell reproduction. | 1 |
| g) | What are lipoproteins? | 1 |
| h) | Which are fat soluble vitamins? | 1 |
| i) | What is the role of ligase in replication? | 1 |
| j) | Define replication. | 1 |
| k) | Define vascular bundle. | 1 |
| l) | Define translation. | 1 |
| m) | Draw schematic representation of a nucleotide. | 1 |
| n) | Define mechanical tissue. | 1 |
- 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)**
Describe in detail: Mitosis.
- Q-4 Attempt all questions (14)**
Describe in detail: Cell Cycle.
- Q-5 Attempt all questions (14)**
Enlist Nitrogenous bases of DNA. Draw their structures. **7**



	Enlist Nitrogenous bases of RNA. Draw their structures.	7
Q-6	Attempt all questions Briefly describe involvement of different RNA molecules in Process of Protein synthesis. Describe various abnormal chromosomes by giving example of any two.	(14) 7 7
Q-7	Attempt all questions Write a note on classification of Vitamins. Write a note on classification of Amino acids.	(14) 7 7
Q-8	Attempt all questions Briefly describe general characters and structure of algae Briefly describe Ultra structure of plasma membrane with a labeled figure.	(14) 7 7

