

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.

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|---|--|-------------|
| 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

