

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

Subject Name : Botany - II

Subject Code : 4SC02BOC1

Branch: B.Sc. (Chemistry)

Semester : 2

Date : 04/05/2018

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.

**Q-1 Attempt the following questions: (14)**

- Name fat soluble vitamins. (1)
- Who invented structure of DNA? (1)
- Enlist types of RNA. (1)
- Vitamin C is water soluble. True/False? (1)
- Yeast is reproduced by \_\_\_\_\_. (1)
- Locomotion is undertaken by? (1)
- Enlist phase of cell cycle. (1)
- Cell wall of algae is made up of \_\_\_\_\_. (1)
- There are total 22 amino acids. True/False? (1)
- Cell wall of fungi is made up of \_\_\_\_\_. (1)
- Who invented fluid mosaic model? (1)
- Define : Lamp brush chromosome. (1)
- Uracil is present in DNA structure. True/False? (1)
- Programmed cell death is also known as \_\_\_\_\_. (1)

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

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

- Write a note on DNA replication. (7)
- Write a note on Fungi. (7)

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

- Write a short note on Algae. (7)
- Write a short note on Nitrogen Metabolism and Fixation. (7)

**Q-4 Write notes on: (14)**

- Chromosome. (4)
- Lipids. (5)



- c) RNA and its types. (5)
- Q-5 Attempt all questions (14)**
- a) Write a note on Cell Cycle. (7)
- b) Draw and explain the structure of DNA. (7)
- Q-6 Attempt all questions (14)**
- a) Write a short note on Vitamins. (7)
- b) Write a note on structure of Plasma Membrane. (7)
- Q-7 Attempt all questions (14)**
- a) Write a comparative note on Cell Differentiation and Interactions. (6)
- b) Enlist economic importance of Fungi. (3)
- c) Explain proteins in brief. (5)
- Q-8 Attempt all questions (14)**
- a) Write a short note on gene regulation in prokaryotes. (7)
- b) Enlist economic importance of Algae. (3)
- c) Discuss classification of amino acids. (4)

