

# 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.

---

<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	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
<b>Attempt any four questions from Q-2 to Q-8</b>		
<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Define process of Initiation in replication.	4
	b) Draw structure of a Nucleotide.	5
	c) Draw structure of a RNA unit.	5
<b>Q-3</b>	<b>Attempt all questions</b> Describe in detail: Mitosis.	<b>(14)</b>
<b>Q-4</b>	<b>Attempt all questions</b> Describe in detail: Cell Cycle.	<b>(14)</b>
<b>Q-5</b>	<b>Attempt all questions</b> Enlist Nitrogenous bases of DNA. Draw their structures.	<b>(14)</b> 7



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

