Enrollment No:		Exam Seat No:	
	Summer Exa	amination-2017	
Subject Name: I	Botany-II		
Subject Code: 4	SC02BOC1	Branch: B.Sc.(Chemistry	y)
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>b</b> )	DNA is polymer of deoxyribonucleic acid. True or False?	1	
	<b>c</b> )	What is the function of cell wall?	1	
	d)	What are chromosomes?	1	
	<b>e</b> )	Enlist the various forms of RNA.	1	
	<b>f</b> )	Enlist the various stage of cell reproduction.	1	
	<b>g</b> )	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	
	1)	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>b</b> )	Draw structure of a Nucleotide.	5	
	<b>c</b> )	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	
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	Enlist Nitrogenous bases of RNA. Draw their structures.	7
Q-6	Attempt all questions	(14
	Briefly describe involvement of different RNA molecules in Process of Protein synthesis.	7
	Describe various abnormal chromosomes by giving example of any two.	7
Q-7	Attempt all questions	(14
	Write a note on classification of Vitamins.	7
	Write a note on classification of Amino acids.	7
Q-8	Attempt all questions	(14
	Briefly describe general characters and structure of algae	7
	Briefly describe Ultra structure of plasma membrane with a labeled figure.	7