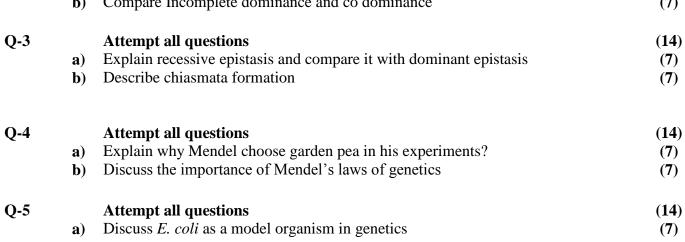
Eı	nrollm	nent No: Exam Seat No:	-
		C.U.SHAH UNIVERSITY	
		Summer Examination-2019	
St	-	Name: Discipline Specific Elective-I (Inheritance Biology) Code: 4SC05INB1 Branch: B.Sc. (Microbiology) er: 5 Date: 16/03/2019 Time: 10:30 To 01:30 Marks: 70	
In	(2) I (3) I	Use of Programmable calculator & any other electronic instrument is prohibited. Instructions written on main answer book are strictly to be obeyed. Draw neat diagrams and figures (if necessary) at right places. Assume suitable data if needed.	_
Q-1		Attempt the following questions:	(14)
Attemp	n)	Name any two semi autonomous cell organelle Define crossing over Define Transposition Define Recombination Define epistasis Give an example of Incomplete dominance Define gene Define allele Define inversion of gene Name any two abnormality due to chromosomal number Define pseudo allele Define penetrance	
Q-2		Attempt all questions	(14)
	a)b)	·	(7) (7)
Q-3	a) b)	Explain recessive epistasis and compare it with dominant epistasis	(14) (7) (7)
0-4		Attempt all questions	(14)





	b)	Saccharomyces cerevisiae is an important model organism in genetics. Discuss	(7)
Q-6		Attempt all questions	(14)
	a)	Define recombination. Discuss mapping by recombination.	(7)
	b)	Discuss the chromosomal number abnormality and its symptoms in the following: a) Turner syndromeb) Down syndrome	(7)
Q-7		Attempt all questions	(14)
	a)	Explain the structural organization of chromosomes	(7)
	b)	What is the end replication problem of DNA? How it can be resolved?	(7)
Q-8		Attempt all questions	(14)
	a)	Compare Homologous and non-homologous recombination	(7)
	h)	Define transposition. Write a note on the uses of transposons	(7)

