

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Genetic Engineering and Biotechnology

Subject Code : 4SC03GEB1

Branch: B.Sc. (Microbiology)

Semester: 3

Date: 23/11/2022

Time: 11:00 To 02:00

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) Define a Recombinant DNA technology.	1
	b) What is a Patent.	1
	c) Which blotting technique is used for the separation of protein?	1
	d) What is the function of restriction enzyme?	1
	e) Define a Vector.	1
	f) Define a Gene therapy.	1
	g) Full form: RT-PCR.	1
	h) What is a function of SDS in electrophoresis?	1
	i) What is meant by real time in PCR?	1
	j) Give any two names of recombinant product.	1
	k) What is a function of kinase enzyme.	1
	l) Which membrane is used in Southern blotting.	1
	m) Full form: BACs	1
	n) Write down three characteristics of vector	1

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

Q-2	Attempt all questions	(14)
A	Write a detail note on southern blotting.	07
B	Write about a genomic library.	07
Q-3	Attempt all questions	(14)
A	Write about a Hepatitis B recombinant vaccine.	07
B	Write a note on recombinant insulin production.	07
Q-4	Attempt all questions	(14)
A	Write about a PCR technique.	07
B	Write a detail note on sanger sequencing.	07
Q-5		(14)
	Write a detail note on Gene therapy	



