

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Genetic Engineering and Biotechnology

Subject Code : 4SC03GEB1

Branch : B.Sc. (Microbiology)

Semester :3

Date : 26/03/2018

Time : 02:30 To 05:30

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)
	a) S1 is a type of nuclease enzyme. True/False	1
	b) Write full form of PCR.	1
	c) EcoRI is a type of ligase enzyme. True/False	1
	d) Write full form of dATP.	1
	e) Write full form of WIPO.	1
	f) Taq DNA polymerase is used in DNA amplification. True/False	1
	g) Write full form of NGS.	1
	h) T7 is a type of promoter. True/False	1
	i) Write full form of SDS-PAGE.	1
	j) Bt gene has come from virus. True/False	1
	k) Write full form of pUC.	1
	l) Copyright is a type of fundamental right. True/False	1
	m) Write full form of hGH.	1
	n) YAC is a type of plasmid. True/False	1
Q-2	Attempt all questions	(14)
A	What is PRC? Explain the various steps of PCR.	7
B	Briefly explain the technique of Southern Blotting.	7
Q-3	Write short notes on-	(14)
A	Trademarks	7
B	Western Blotting	7
Q-4	Attempt all questions	(14)
A	What is Plasmid? Explain the important properties of a good plasmid.	2+5
B	What do you mean by patents? Explain patent are different than copyright.	2+5



