Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2258 FACULTY OF SCIENCE & TECHNOLOGY B.Sc. T.Y (Sem-V)

Examination November/December-2022 Bio-Technology Paper- XVI (Recombinant DNA Technology)

[Time:	(Recombinant DNA Technology) 1:30 Hours]	[Max. Marks:50]
[1 mie.	1.30 Hours	[IVIAX. IVIAI KS.30]
	Please check whether you have got the right question paper.	
N.B	 Attempt All Questions. Draw a diagram wherever necessary. 	
Q.1	What is blotting? Explain different types of blotting.	20
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	What is cloning? Explain different cloning strategies.	15 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q.2	Explain the screening methods used in Recombinant DNA technology	20
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	Write note on: (any Four)	5×4=20
	 a) Applications of r DNA technology b) Transgenic plants and animals. c) Restriction mapping d) Electroporation e) Bacteriophage vectors f) DNA sequencing. 	
Q.3	Multiple choice questions.	10
	 Bacteria protect themselves from viruses by fongmenting viral DNA upon a) Methy lase b) endonuclease c) ligases d) exonuclease. 	entry with
	2. To be a cloning vector a plasmid does not require	
	a) An origin of replicationb) A restriction sitec) Antibiotic resistant markerd) High copy number	

3.	Which of the following is not component of YAC
	a) Centromere b) Telomere c) Cos site d) origin of Replications
4.	For cloning more than 100 kb DNA, which vector would be suitable?
	a) Cosmid b) Plasmid c) Lambda d) YAC
5.	The First step in PCR is
	a) Denaturation b) cooling c) primer extension d) Annealing
6.	A. tumefaciens is an effective vector for use with
	a) Corn b) Rice c) Wheat d) Soyabean
7.	Dideoxy sequencing depends upon one of the following
	a) Termination b) ATP c) Plasmid d) Vector Primer
8.	DNA fingerprinting involves.
	a) chain termination b) VNTR loci c) RFLPs d) degenerate oligonucleotides
9.	A mouse in which one particular gene has been replaced by it's inactivated form generated in vitro
	a) Transgenic mouse b) Knockout mouse c) nude mouse d) Mutant mouse
	. The essential component of Ti plasmid require for integration into plant genome is
	a) Origin of Replicationb) Tumor inducing genec) Nopaline utilization gened) All of the above
	b) Tumor inducing gene d) All of the above
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	a) Origin of Replication b) Tumor inducing gene c) Nopaline utilization gene d) All of the above
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