

BOARD QUESTION PAPER

Ch.: 12. Biotechnology

Total Marks: 25

Subject: Biology

Class	: X1	П	Time: 1 Hr.
Q.1	. \$	Section A elect & write the most appropriate answer from the given	n altarnativas for
Ų.1		ach sub-question.	an afternatives for
	i)	Molecular scissor used in genetic engineering is	
	1)	(a) DNA polymerase (b) Helicase	
		(c) Restriction endonuclease (d) DNA ligase	
	::7		
	ii)	Plasmids are found in	1) F:
	,	(a) Algae (b) Bacteria (c) Viruses	d) Fungi
	iii)	The example of biopiracy related to Indian plants	
		(a) Potato (b) Turmeric (c) Tomato	d) Soyabean
	iv)	technique is used for in vitro gene cloning	or gene
		multiplication.	
		(a) Electrophoresis (b) SDS-PAGE	
		(c) Spectroscopy (d) PCR	
Q. 2.	. 13	Vrite the answer in ONE sentence.	2
Q. 2.	. v i)	What is PCR?	2
	ii)		
	11)	Name the hormone which is used against diabetes.	
Section B			
:	At	tempt any THREE.	6
Q.3: Draw diagrammatic representation of rDNA technology.			
Q.4: Draw diagrammatic representation of DNA replication through polymerase chain reaction.			
Q. 5:	Wł	nat are the requirements of polymerase chain reaction?	

Q. 6: Enlist the diseases where clinical trials of somatic cell gene therapy have been employed? **Section C** Attempt any THREE. 9 Q. 7 : Write a note on plasmid. Give significance of biopiracy. Q. 8: Q.9: Sketch outline of the process of recombinant DNA technology. Q. 10 : Give significance or functions of Transgenic plants. **Section D** : Answer the following: (ANY 1) **Q. 11:** Write down the steps involved in PCR. **Q. 12:** Write the applications of transgenic animals.

