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Sr. No. of Question Paper:

c. Briefly answer the following questions

What are the limitation/s of Taq DNA polymerase?

i.

ii.

iii.

Unique Paper Code: 216651 Applied Biology and Biotechnology Name of the Paper: B.Sc. (Life Science) Name of the Course: VI Semester: 3 Hours Duration: 75 Maximum Marks: Instructions for Candidates 1. Write your Roll No on the top immediately on receipt of this question paper. 2. Attempt any FIVE questions including Questions No 1 which is compulsory Q1. 05 a. Define: I. Electroporation Π. Extrinsic incubation period Ш. Electrophoresis Expression vector IV. V. Rancidity 10 b. Differentiate between the following: i. Vivax and Falciparum Malaria ii. **BCG** and **DOTS** Genomic and cDNA library iii. Exonuclease and Endonuclease iv. Probiotics and Prebiotics

Mention the infective stage and describe the mode of transmission of Entamoeba

Give the commonly used micro-organisms for the production of Lactic acid and Acetic acid

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d. Exp	and the following	02
i.	PAGE	
ii.	pUC	
iii.	DHF	
iv.	NMEP	•
e. Writ	te the contributions of the following	. 04
i.	Herbert Boyer and Stanley Cohen	
ii.	Karry Mullis	
iii.	E.M. Southern	
iv.	Ronald Ross	
Q2.		06, 06
a)	Describe in detail the process of production of human growth hormone by	recombinant DNA
	technology	
b)	What are recombinant vaccines? Describe the process of industrial biosynthesis of recombinant	
	Hepatitis B vaccine.	
Q3.		06, 06
a)	What are the various methods of food preservation? Write a note on food borne diseases.	
b)	Describe in detail the process of formation of cheese by microbes.	
Q4		12
Give a	an account of the life history, pathology and prevention of the disease c	aused by Wucheria
bancro	ofti.	
Q5		06, 06
a)	Write a brief note on the production and application of either transgenic at plants.	nimals or transgenic
b)	Describe in detail the process of Polymerase Chain Reaction. Also list the technique.	applications of the
Q6 Dia	agrammatically explain the process of	06, 06
a)	Molecular diagnosis of Cystic fibrosis	
b)	DNA sequencing by Sanger's method	
Q7 ·W	rite short notes on (Any Three):	04, 04 `
a)	Dengue "	2 *
b)	Alpha complementation	· ·
, c)	. Gene Therapy	• •
. d)	Mycobacterium tuberculosis	
		(1500)
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