05/05/2015 [Haditional Exam]	And the state of t
VCD- / / BIOTECHNOLOGY-I, S.Y.B.Sc. SEM IV EXAM MARKS 75	2 ^{1/2} HRS (70)
All questions are compulsory.	
Draw diagram wherever necessary and the design	
Q.I (A) Explain the following terms (any two)	(04)
 Latent period Capsid Plus strand RNA virus Protomers 	A STATE OF THE PARTY OF THE PAR
 Q.I (B) Fill in the blanks (any four) 1. The form of virus which remains integrated into the host chromosome is called a	es glucose in block
7. In polio vaccine in which attenuated forms of the virus are employed. 8. In case of Influenza virus genome is segmented into linear single – stranded	
 Q.I (C) Discuss (any two) of the following. Preparation of TAB vaccine along with its variants. Human growth hormone production with reference to application of biotechnology in m Structure of viruses in general. Methods of viral enumeration. 	nedical science
Q.II (A)Name the following (any two)	(04)
 Microorganisms which fix nitrogen by living in the roots of legumes and other plants. Transformation of nitrates to gaseous nitrogen accomplished by microorganisms in a se reactions. Final treatment of sewage which includes usage of different chemicals and disinfectants. Sewerage system which carry off domestic and industrial water. Measure of oxygen consumed during the oxidation of the oxidisable organic matter by a agent. A dark colored amorphous substance which improves the texture and structure of soil. Enzyme complex involved in nitrogen fixation which is sensitive to oxygen. Film of microorganisms formed on the filtering medium of the trickling filter tank. 	anidy and the desired
Q.II (B) Explain the following terms (any two)	(04)
 Commensalism Rhizosphere Nitrification 	
O.H (C) Give an brief account on (any two) of the following	(10)

Physical characteristics of soil

BIO	TECHNOLOGY-I	S.Y.B.Sc.SEM IV	EXAM	medicinal fire for
2.	Carbon cycle		Charles to the second	The second second
3.	Chemical and microb	iological characteristics of wast	tewater.	
4.	Activated sludge pro-	cess.	** ** ** ** ** ** ** ** ** ** ** ** **	AND TO ADD THE TANK !
	II (A) Fill in the blan			(04)
2) 3) 4) 5) 6) 7) 8)	concentration as long In The production of virissensitive to a newly ofis an enzyme. Cell growth is controlinvo	a situation where the end produled by adjusting the concentrate olves the freezing of a culture for a ter.	regarding the spectrum of uct of a biochemical pathwa ion of one subatrate in the	on progresses. ethanol to acetic acid. microorganisms which is a prevents the synthesis of the control of the
Q.	III (B) Explain (any	two) of the following		CONTRACTOR OF THE PARTY OF THE
	Diauxy Subculture	3) Primary Screen	ing edback control	
F. F. Land	The state of the s	two) of the following.		(12)
3)	Mention the differen	by submerged fermentation? In thod used for the long term pres nces between batch and continue or primarily screen an ex	brief explain the process of g servation of microorganisms.	luconic acid production?
Q	.IV Write short note	s (any three) of the following		
1	. Cavitator	TV STORY TO THE PARTY	THE THE TOTAL PROPERTY.	(15)
2	. Imhoff tank.	STATE STORY TO THE T	Market Commence	The state of the s
3	3. Nitrogen fixation.	Advisor in the second		The state of the s
- 4	Life cycle of T4 pl	nage.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5	. Somatostatin prod	uction with reference to applica	tion of biotechnology in mad	ical .
6	Evanonantial phase	LANGER COREST LINES FOR FULLY	mology in med	ical science