Seat No.:	

P.T.O.

AE-134

April-2019

M.Sc., Sem.-II

410 : Microbiology (Advances In Microbial Technology)

(
[Max. Marks:	70
rate and discuss critical points for fermentative production of Acetone	14
OR	
rite in brief the microbial production of citric acid.	7
rite a short note on preparation of 'beer'.	7
any four in 1-2 lines only: (out of 6)	4
ses of acetic acid	
ioethanol	
ed wine	
licrobes producing vinegar	
iticulture	
wo spoilages of wine	
(A) Discuss the production and recovery of Streptomycin. OR	
nlist anticancer agents and describe any one in detail.	7
That are siderophores. Discuss their mechanism and their application.	7
any four in 1-2 lines only: (out of 6)	4
refine Chimeric Vaccine	•
ame producers of Cephalosporin	
reparation of DNA vaccine	
ypes of siderophores	
alviceps purpurea	
lassification of alkaloids	
the biosynthetic pathway for overproduction of glutamic acid and discuss	
	14
OR	
nlist producers and write a note on the commercial production of Vitamin	
2.	7
ive a detailed account of fermentation production of Proteases.	7
2	

1

AE-134

	(B)	Answer any three in 1-2 lines only: (out of 5)		3	
		(a)	What are the different types amylases?		
		(b)	Define submerged fermentation.		
		(c)	What are the applications of lipases?		
		(d)	Steps in purification of amylase.		
		(e)	Producers of L-Lysine.		
4.			te an essay on microbial production of biosurfactants give and its applications.	14	
			OR		
		(i)	Discuss the microbial transformation of progesterone by hydroxylations.	7	
		(ii)	Discuss the production and uses of PHA.	7	
	(B)	Ansv	wer any three in 1-2 lines only: (out of 5)		
		(a)	What is PHBV ?		
		(b)	Uses of Dextran		
		(c)	What are biodegradable polymers?		
		(d)	Structure of Xanthan.		
		(e)	Producers of PHB		

AE-134 2