S0125 / S1003 BIOTECHNOLOGY: PAPER IV INDUSTRIAL BIO TECHNOLOGY. (REV 2016)

TURN OVER

3.	(A)	Give significance of / importance of (Any Three)  (i) Mashing		03
		(ii)	Malolactic fermentation	
		(iii)	Beechwood shavings	
		(iv)	Corn steep liquor	
		(v)	Hops	
		(vi)	Spawn	
		(12)		
	(B)	Discu	ass the following (Any Two)	12
			Red wine fermentation protocol.	
		(ii)	The production of Vinegar schematically.	
		(iii)	The fermentation and recovery of Citric acid.	
		(iv)	The production of Penicillin G.	
4.	(A)	State	the role / function of the following in product recovery (Any Three)	03
		(i)	Crystallization	
		(ii)	Filter aids	
		(iii)	Solvent extraction	
		(iv)	Flocculating agents	
		(v)	Ultrafiltration	
		(vi)	Collectors	
	(B)	Give	an account of the following with respect to downstream processing	12
	(B)	Oive	(Any Two)	14
		(i)	Two types of centrifugation techniques	
		(ii)	Drying	
		(iii)	Rotary vacuum filters	
		(iv)	Any two chemical cell disruption methods	
		()		
5.	Write	short	notes on following (Any Three)	15
		(i)	Working of a tower fermentor	
		(ii)	Measurement of biomass	
		, ,	Criteria for the transfer of inoculum	
		(iv)	Spoilage in Beer	
		(v)	Chromatography in product recovery	
			Foam separation in downstream processing	
		W)		