201 No.\_\_\_\_

# Sardar Patel University



## Biotechnology - VI-Semestes

#### **US06CBIT-22**

### (Industrial Biotechnology)

Date: 24-06-2022, Feiday Marks:70 Time: 10 AM TO 12 PM 10 **Multiple Choice Question** 0-1What does a trademark protect? 1. c) Work art a) An invention d) Logos, names, brands b) A secret formula Under which bio safety level should you work when dealing with 2. dangerous microorganism with no known cure/ vaccine? c) BS 2 a) BS 1 d) BS-3 b) BS 4 Which among this impeller shaft do not pierce the fermentation vessel? 3. c) Magnetic drives a) Bush seal d) Packed gland seal b) Mechanical seal can be used in the precipitation of proteins mainly due to changes in 4. the dielectric properties of the solution. · c) PEG a) Acetone d) Triazine dye b) Kieselguhr Which of the following methods dehydrates microbial cells by plasmolysis 5. thereby killing them? c) Pasteurization a) Sugaring d) Smoking b) Heating In static method of gassing out \_\_\_\_\_ is used as scrubber. 6. c) Nitrogen a) Carbon dioxide d) Ammonia b) Sodium thiosulphate Lagers are the beer in which fermentation is carried out using \_\_\_\_ 7. c) Dried yeast a) Top yeast d) Middle yeast b) Bottom yeast Cuvee in sparkling wine production is? 8. c) Yeast addition a) The wire cage that hold d) The base wine cork b) Sugar addition before corking Absorbing oxygen from the air and pollutants from wastewater can be 9. decomposed aerobic microorganism by which of the following method? c) Rotating biological a) High rate biofilters contractors b) Conventional biofilters d) Rotating drum What is required to keep the activated sludge suspended? 10.

a) Carbon dioxide

c) nitrogen

## d) Ammonia

Q-2		Answer the Following	08
	1.	Activated sludge uses to degrade organic waste from wastewater.	
	2.	A trickling filter is primarily a biological oxidation process to remove	
		from sewage	
	3.	The centrifuge most suitable for separation moulds mycelia or crystalline	
		compounds is	
	4.	Filter Aid decreases the porosity of filter and decreases the flow rate when	
		added initially in fermented broth. State True or False.	
	5.	is added to induce bitter taste in beer.	
	6.	Naturally occurring genes cannot be patented. State true or false.	
	7.	protects the breeding lineage of plants.	
	8.	The crushed grapes are known as	
Q-3		Write any ten of the following.	20
<b>Q</b> -3	1.	Give advantages of tangential filters.	•
	2.	What is Pasteurization?	
	3.	What are lagoons?	
	4.	What is activated sludge?	
	<del>5</del> .	What are thermisters?	
	6.	Define BOD and give its significance in waste water treatment.	
	7.	Write the full forms of WIPO and TRIPS	
	8.	Give an account of Freezing and Thawing.	
	9.	Define Biosafety and trade secret.	
	10.	Give difference between Red and white wine.	
	11.	What are hops?	
	12.	Give significance of patenting?	
Q-4		Long Question (Any four)	32
	1.	Discuss aeration and agitation equipments for CST fermenter.	
	2.	Discuss various methods for determination of Kla	
	3.	Discuss Heat as method of preservation of food.	
	3. 4.	Explain Beer Production in detail.	
	5	Give a detail account on activated sludge process.	
	6.	Write note on : 1. Trickling Filter and	
	٠.	2. RBC	•
	7.	Discuss the various levels of Biosafety.	
	8.	Discuss various forms of IPR and its significance.	
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