JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2024

B.Tech-VI Semester (BT)

	JRSE CODE (CREDITS): 18B11BT611 (04) MAX. MARKS	MAX. MARKS: 15	
COL	JRSE NAME: Downstream Processing		
COURSE INSTRUCTORS: Dr. Saurabh Bansal MAX. TIME:			
Note	: (a) All questions are compulsory.		
(b) M	Aarks are indicated against each question in square brackets.		
(c) 7	The candidate is allowed to make Suitable numeric assumptions wherever require roblems.		
	[CO-1]		
1.	. Why downstream processing should be done in minimum number of steps?	[1]	
2.			
3.	What will be the depreciated value of a fermenter after 5 years which was purchased a 5,00,000 (five Lakhs)?	recently at Rs.	
4.	How the intended use of products does affect the product quality and its cost?	[1]	
	[CO-2]	-	
5.	entiate between the downstream processing of intracellular and extracellular products.		
		[2]	
6.	a) Which enzyme will you lyse the cell wall of a fungal cell?	[1]	
	b) Why removal of nucleic acid is important before further processing of the cell lysa	te? [1]	
	[CO-3]		
7.	What are the different forces applying on a sedimenting particles? Explain with a suitable diagram. [2]		
8.	much a centrifugal force will be applied if a sample is centrifuged at a 5000 RPM in a fuge with a diameter of 20 cm? [2]		
9.	What are the importance of filter aid in a filtration process? Give two examples of filt can be used in filtration.	er aid which	