JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATIONS-2022

M.Sc. (BT)-I Semester (BT)

	(D1) 1 Belitester (B1)		
COU	JRSE CODE (CREDITS): 18MS1PH11 (2)	18MS1PH11 (2) MAX. MARKS: 25	
COURSE NAME: Basics of Physics and Chemistry		MARKS: 25	
COU	JRSE INSTRUCTORS: Dr. Poonam Sharma/Prof. Sunil Khah MAX TIA	⁄Е: 1;30 Hour	
Note:	: All questions are compulsory. Marks are indicated against each question in		
Ol(a)). Explain the applications of all it	square brackets.	
('('')). Explain the applications of colloids in sewage disposal and purification of p	olluted air. 3	
(b).	Elucidate why "Tyndall effect" is quite strong in lyophobic colloids and we colloids.	ak in lyophilic	
Q2(a)). Discuss the factors affecting the solubility of solutes.	3	
(b).	Elaborate the difference between ideal and non-ideal solutions.	3	
Q3(a).	A solution of NaOH (molar mass 40 gmol ⁻¹) was prepared by dissolving 1.6 500 cm ³ of water. Calculate molarity of the solution.	g of NaOH in	
(b).	"Osmosis play important role in blood cells". Defend the statement.	3	
Q4(a).	Physisorption and chemisorption have different type of characteristics. Expla	2 in. 3	
(b).	What are the main components of adsorption?	an, j	
(c).	How endergonic and exergonic reactions are related?	2	
		3	