## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2023

## B.Tech-III Semester (Civil)

	B. I ech-III Semester (Civil)	
COU	RSE CODE (CREDITS):18B11CE311	MAX. MARKS: 35
COU	RSE NAME: Chemistry	
COU	RSE INSTRUCTORS: Dr. Poonam Sharma	MAX. TIME: 2 Hours
Note:	(a)All questions are compulsory.	
(b)M	arks are indicated against each question in square brackets.	potra property and the second
Q1(a)	. Name the types of bonds based on the mode of formation. Discuss	in brief ionic and
	covalent bonds with suitable example	3[COI]
(b).	Explain different types of ceramics products along with examples	3[COIV]
Q2(a)	. Elaborate the controlling measures of air pollution.	3[COVI]
(b).	Describe the harmful effects of carbon monoxide.	3[COVI]
Q3(a)	. Elucidate the important characteristics of Refractories.	3[COIV]
(b).	Discuss the applications of Zeolites.	3[COIV]
Q4(a)	. Equal weights of polymer molecules with molecular weights 20,0 g/mol are mixed. Calculate Mn and Mw.	000 g/mol and 200,000 3[COV]
(b).	Elucidate classification of polymers based upon molecular forces.	3[COV]
(c).	Explain the difference between paints, enamels, emulsion paints, la	ecquers and varnishes. 3[COIII]
Q5(a)	. If a polymer sample has population as	
	10 molecules of molecular mass each = 5000	
	20 molecules of molecular mass each = 7500	
	20 molecules of molecular mass each = 10000	
ÿ.	25 molecules of molecular mass each = 15000 20 molecules of molecular mass each = 20000	
1	5 molecules of molecular mass each = 25000	
	Calculate the number average and weight average molecular mass of	
(b).	Differentiate between redox and complexometric titrations.	3[COV] 3[COV]
(c).	How radon gas is responsible for degradation of indoor air quality?	° 2[COVI]