JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-I EXAMINATION- February 2022

B.Tech VI Semester (Open Elective)

COURSE CODE: 18B1WBT636 COURSE NAME: Industrial Chemistry COURSE CREDITS: 3	MAX. MARKS: 15 MAX. TIME: 1:00Hr
Note: All questions are compulsory. Carrying of mobile phone during exacase of unfair means	
Q1(a) Mention medical use of Zeolites. (b) Why Zeolites can accommodate a wide variety of cations?	1
(c) What is the effect of temperature on the structure and behavior of the	lermoplastics? 1
Q2(a). Discuss the purpose of making of alloys. (b). Explain the use of Aluminium alloys.	2
Q 3(a). Elaborate the industrial importance of ceramics. (b). Elucidate the heat treatment of the contract of	1 2
 (b). Elucidate the heat treatment of steel with the help of diagram. (c). Differentiate between Thermoplastics and thermosetting polymers. 	2
Q4. The density and associated percent crystallinity for two polytetrafluor follows:	2 Toethylene materials are as
ρ (g/cm³) crystallinity (%) 2.144 51.3	,
2.215 74.2 (a) Compute the densities of totally crystalline and totally amorphous polyteters.	•

- (a) Compute the densities of totally crystalline and totally amorphous polytetrafluoroethylene.
- (b) Determine the percent crystallinity of a specimen having a density of 2.26 g/cm³