JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

M.Tech-I Semester (CSE/IT)

COURSE CODE (CREDITS): 22M1WCI131 (3)

MAX. MARKS: 15

COURSE NAME: Data Warehousing and Data Mining

COURSE INSTRUCTORS: Dr. Rakesh Kanji

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	Explain the importance of Data warehouse and construction	CO1,2	1+2
AND THE PROPERTY OF THE PARTY O	procedure.		
Q2	Briefly elaborate salient features of Data warehouse. Differentiate	CO1,2	2+1
	Database from Data warehouse w.r.t exactness features.		
Q3.	Build Data warehouse based on star schema w.r.t time, location,	CO2	1.5+1.5
	product as dimension table and sales as fact table. Create some		
	cuboids out of that.		
Q4.	Based on cube as per Q3, provide slice, dice and dice+slice related	CO2	1.5+1.5
	only one query for each of them.		
	If a disk page has 8 elements then for 2*4*1 and the the cuboid is		
	8*8*2 then how many disk page will be required for a slice operation?		
Q5	Explain the role of indexing, dimension hierarchy and aggregate	CO2	1+1+1
	function in Data warehouse system.		