JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2025

B.Tech-V Semester (CSE/IT)

COURSE CODE (CREDITS): 25B1WCI511 (2)   MAX. MARKS: 15

COURSE NAME: PROMPT ENGINEERING

COURSE INSTRUCTORS: Vani Sharma   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.	a) What are the characteristics of a good prompt? How do system prompts differ from user prompts in conversational LLMs? b) Under what conditions is fine-tuning a better strategy?	2	[4]
Q2.	How could prompting techniques and diffusion models be combined for text-to-image generation tasks?	2	[2]
Q3.	Compare and contrast CNNs vs. RNNs for language modelling in terms of architecture, context capture, computational efficiency, and parallelism.	2	[3]
Q4.	Name the two architectures of Word2Vec and explain their basic difference.	2	[3]
Q5.	Given a toy corpus: play (3), plays (2), player (2), playing (1), replay(1) Show the initial base vocabulary with WordPiece prefixes and calculate the score for two possible merge operations.	2	[3]