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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: ADS1707 **Course Name:** Generative AI and Prompt Engineering

Semester: Seventh Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	**Define Generative AI.**	2	CO1	BT1
2	**Define foundation models and explain their significance.**	2	CO1	BT1
3	**Distinguish between generative models and discriminative models.**	2	CO1	BT1
4	**Apply the concept of tokenization to break the sentence "Generative AI creates new content" into tokens.**	2	CO2	BT1
5	**Demonstrate how you would fine-tune a pretrained LLM for legal document summarization.**	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	**Describe LLMs, GANs, and Diffusion Models, explaining how each works.**	10	CO1	BT2
7	**Explain the overview of Generative AI, describing how it works and discussing its key benefits to organizations with real-world examples.**	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	**Explain the features of GPT, Claude, and Gemini, and summarize their differences.**	10	CO1	BT2
9	**Describe DALL·E and MidJourney and explain their role in creative content generation.**	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	**Apply the step-by-step transformer architecture to trace how the sentence "The cat sat on the mat" is processed and the next token generated.**	10	CO2	BT3
11	**Illustrate the pretraining and fine-tuning paradigm by designing a plan to adapt a pretrained LLM foundation model into a customer-support chatbot for a banking application.**	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

PTO (Please Turn Over)

Q.N.	Questions	M	CO	BT
12	**Apply the forward and reverse diffusion process to explain, step by step, how a model such as Stable Diffusion generates a realistic image from a text prompt.**	10	CO2	BT3
13	**Apply the RLHF (Reinforcement Learning from Human Feedback) methodology to design a process for improving the safety and helpfulness of a generative AI chatbot's responses.**	10	CO2	BT3