

Course Code: SH 180**Course Name: Generative AI and Prompt Engineering (PCC)**

Day & Date: Thursday 16/10/2025

Time: 2:30 PM to 3:30 PM

Max Marks- 25

Instructions: 1) All questions are compulsory.

2) Figures in rounded () brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.

3) CO is the index number of the Course Outcome statement.

4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.

5) Assume suitable data if necessary.

6) Use of non-programmable calculators is allowed

Q. No	Question	Marks	BT Level	COs
Q1				
A	Distinguish between Generative AI and Discriminative AI. Explain the core goal and learning method of each, and provide a clear, real-world example for both types of models.	5	2	1
B	Discuss three major benefits of Generative AI, providing a specific example for each. How does it enhance creativity, improve efficiency in business, and accelerate scientific discovery?	5	3	1
C	Name and describe one specific tool for each of the following generative tasks: Image Generation, Code Generation, and Audio Generation. Explain the primary function of each tool you have chosen.	5	3	1
Q2				
A	Explain the core adversarial process behind Generative Adversarial Networks (GANs). Clearly define the roles of the Generator (G) and the Discriminator (D)	5	2	1
B	Discuss major challenges encountered when training GANs, such as mode collapse, vanishing gradients and non-convergence.			
	OR	5	3	1
	Discuss four different Key Variants of GANs.			

