Duration: 3hrs		ion: 3hrs [Max Marks:80]	
N.J	3. :	 Question No 1 is Compulsory. Attempt any three questions out of the remaining five. All questions carry equal marks. Assume suitable data, if required and state it clearly. 	
1		Attempt any FOUR	[20]
	a	List and explain the challenges in Generative Models	
	b	Differentiate between Bagging and Boosting ensemble technique	
	c	Differentiate between Generative and Discriminative modeling	
	d	Explain any two challenges associated with Generative Adversarial Network	
	e	Differentiate between Virtual Reality and Augmented Reality	
2	a	Explain self-supervised learning and meta learning with suitable examples	[10]
	b	Explain Random Forest algorithm with suitable example	[10]
3	a	Write a short note on Hidden Markov Models with suitable example	[10]
	b	Explain the working of Generative Adversarial Network with proper architecture diagram	[10]
4	a	Write a short note on Bayesian Network with suitable example	[10]
	b	Draw and explain the architecture of Variational Autoencoder	[10]
5	a	Explain the concept of Metaverse	[10]
	b	Explain the two transfer learning approaches	[10]
6	a	Explain any three variants of Generative Adversarial Network	[10]
	b	Explain any three variants of Autoencoders	[10]
	16		