SE/Sem-III/ NEP/ Computer/ AIDS 12/12/25

Q.P. Code: 25503

Paper/Subject code:2013311/ Open Elective-DS_Generative AI

Duration : 2 hrs 1041312

Maximum Marks: 60

NB **(1) Question No1 is compulsory**
(2) Attempt any three Questions out of remaining five.
(3) All Questions carry equal marks

1		**Attempt any Three**	[15]
	a	Define Generative AI. Explain its scope with suitable examples?	[5]
	b	List any three GPT variants and mention one use case for each.	[5]
	c	What is the importance of data in training the AI model?	[5]
	d	Explain "text-to-image" tools with an example.	[5]
2	a	Explain How CNN Works?	[8]
	b	Explain pre-training and fine tuning and instruct tuning in gen-AI?	[7]
3	a	What is the multiread mechanism in GPT?	[7]
	b	Explain the architecture of RNN & how it works?	[8]
4	a	What are the challenges in Generative AI?	[8]
	b	Write a short note on the architecture and working of GPT models.	[7]
5	a	What is chat-GPT and how does it work?	[7]
	b	What is LLM and Types of LLM explain?	[8]
6		**Attempt -any 3**	[15]
	a	Ethical concerns related to Generative AI.	[5]
	b	Explain the importance of Generative AI in any five real-world domains.	[5]
	c	Differentiate between traditional language models and modern language models.	[5]
	d	Explain the importance and role of self-attention in GPT models.	[5]

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