**QP CODE: 24900084 SERIES:** A



Reg No:....

Name:....

#### MAHATMA GANDHI UNIVERSITY, KOTTAYAM

## FIRST SEMESTER MGU-UGP (HONOURS) REGULAR **EXAMINATION NOVEMBER 2024**

**First Semester** 

#### Multi-Disciplinary Course - MG1MDCECT101 - FOUNDATION OF AI **AUTOMATION**

(2024 ADMISSION ONWARDS)

Duration: 1 Hours

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I), Appreciation (Ap), and Skill (S)

Students should attempt atleast one question from each course outcome to enhance their overall outcome attainability.

Part A

[Learning Domain][CO No(s)]

		1		ce Questions ch question carries one mark		
1	What is Narrow AI primarily designed to do?				[U]	[1]
	a)	General problem solving	b)	Specific tasks		
	c)	Human-like reasoning	d)	Creative thinking		
2	Wha	at is a neural network?			[U]	[1]
	a)	A set of algorithms to recognize patterns	b)	A type of biological brain		
	c)	A hardware component in computers	d)	A collection of data structures		
3	What is the main function of a biological neuron?				[A]	[1]
	a)	To transmit information	b)	To store information		

Maximum Marks: 35

	c)	To create memories	d)	To send electrical signals		
4	Wł	nat did Norbert Wiener develop in tl	ne 19	40s?	[K]	[1]
	a)	Cybernetics	b)	The Turing Test		
	c)	Machine Learning	d)	Deep Learning		
5	Wł	nich AI system can improve over tin	ne by	v learning from data?	[A]	[1]
	a)	Supervised Learning	b)	Unsupervised Learning		
	c)	Reinforcement Learning	d)	Deep Learning		
6	Wł	nich of the following is an application	on of	AI?	[K]	[1]
	a)	Social Media	b)	Mobile Apps		
	c)	Weather Forecasting	d)	Messaging Apps		
7	Which early AI program was developed for natural language processing?					[1]
	a)	MYCIN	b)	Logic Theorist		
	c)	Perceptron	d)	ELIZA		
8	Wł	nich is a key characteristic of AI sys	tems	?	[U]	[1]
	a)	Self-awareness	b)	Decision making		
	c)	Problem-solving ability	d)	Learning from mistakes		
9	Wł	nat is the goal of natural language pr	roces	sing?	[U]	[1]
	a)	Mimic human emotions	b)	Understand human language		
	c)	Recognize speech	d)	Translate human speech		
10	Wł	hat is the purpose of training a neura	ıl net	work?	[U]	[1]
	a)	To test its performance	b)	To initialize random weights		
	c)	To minimize the loss function	d)	To increase network size		
11	Ch	atGPT can assist in writing code in	whic	ch programming language?	[U]	[2]
	a)	python	b)	javascript		
	c)	c++	d)	all of the above		
12	Wł	no developed ChatGPT?			[K]	[2]
	a)	Google	b)	Microsoft		

	c)	OpenAI	d)	IBM		
13	Wh	at is Playground AI primarily used	for?		[A]	[2]
	a)	Text generation	b)	Image generation		
	c)	Audio editing	d)	Video creation		
14	Wh	at is DALL-E primarily used for?			[K]	[2]
	a)	Text editing	b)	Image generation		
	c)	Video editing	d)	Data analysis		
15	Wh a)	ich AI technique is commonly used Decision Trees	l in al b)	gorithmic trading? Convolutional Neural Networks (CNNs)	[K]	[2]
	c)	Reinforcement Learning	d)	Support Vector Machines		
16		tich AI application is used for analy orts and news?	zing	text-based data like financial	[U]	[2]
	a)	Support Vector Machines (SVM)	b)	Natural Language Processing (NLP)		
	c)	Convolutional Neural Networks (CNNs)	d)	K-Means Clustering		
17	Ho a)	w does AI assist with vehicle-to-ev By allowing vehicles to communicate with infrastructure and other vehicles	eryth b)	ing (V2X) communication? By increasing vehicle emissions	[K]	[2]
	c)	By replacing human drivers with robots	d)	By reducing the need for wireless networks		
18		hat AI technology helps detect anon urity purposes?	nalies	s in transportation systems for	[K]	[2]
	a)	Anomaly detection algorithms	b)	Human inspection		
	c)	Time series forecasting	d)	Blockchain technology		
19	WI	hich of the following is crucial for t	ool c	ompatibility?	[K]	[2]
	a)	Ease of use	b)	Technical support		

	c)	Integration with existing systems	d)	Cost structure		
20	W a)	hat is the role of AI in video game of To automate game testing	levelo b)	opment? To create non-player characters (NPCs) with realistic behavior	[K]	[2]
	c)	To generate dynamic content	d)	All of the above		
21	Wh a)	at type of AI model is DALL-E bas Generative Adversarial Network (GAN)	sed or b)	1? Convolutional Neural Network (CNN)	[K]	[2]
	c)	Transformer model	d)	Recurrent Neural Network (RNN)		
22		at command do you typically use to dJourney?	o star	t generating an image in	[A]	[2]
	a)	/start	b)	/generate		
	c)	/imagine	d)	/create		
23	Wh a)	at type of language should users av Professional language	oid w b)	hen interacting with ChatGPT? Inappropriate or offensive language	[U]	[2]
	c)	Casual language	d)	Technical jargon		
24	W	hat does POS tagging refer to in NL	.P?		[U]	[2]
	a)	Predicting the sentiment of a sentence	b)	Parsing and splitting paragraphs		
	c)	Identifying parts of speech in a sentence	d)	Creating new words from a root word		
25	W	hat is Natural Language Generation	(NL	G) in content generation?	[U]	[2]
	a)	The process of generating human-like text from structured data	b)	Translating text between languages		
	c)	Creating visual designs	d)	Analyzing the sentiment of text		
26	W	hat role does community support pla	ay in	selecting an AI tool?	[U]	[2]
	a)	It enhances security	b)	It provides quicker resolutions to issues		
	c)	It increases the tool's popularity	d)	It improves visual design		

27	In AI for healthcare, which of the following refers to the ethical issue of biased algorithms?					
	a)	Patient confidentiality	b)	Algorithmic transparency		
	c)	Fairness in predictions	d)	Data security		
28	Wh	ich algorithm is used in supervised	learn	ing for classification?	[U]	[3]
	a)	Decision Tree	b)	K-means		
	c)	PCA	d)	Random sampling		
29	Wł	nat is "training data"?			[K]	[3]
	a)	Data with known answers used to train the model	b)	Data used to test the model		
	c)	Data that the model generates	d)	Data for cleaning the model		
30	Wh a)	at is "exploitation"? Trying something new	b)	Using what is already known	[E]	[3]
	c)	Making mistakes	d)	Ignoring rewards		
31	Wh	at does fairness in AI mean?			[E]	[3]
	a)	Treating everyone the same, regardless of circumstances	b)	Ensuring equal outcomes for everyone		
	c)	Treating people in a way that is just and unbiased	d)	Ignoring differences among people		
32	Wh	at can happen if AI is not regulated	?		[E]	[3]
	a)	Increased safety	b)	Unfair practices and misuse		
	c)	Better decision-making	d)	More innovation		
33	Wł	nat is "responsible AI"?			[U]	[3]
	a)	AI that always makes the best choices	b)	AI that considers ethical implications in decisions		
	c)	AI that operates without any rules	d)	AI that is difficult to understand		
34	Ho	w can AI affect privacy?			[K]	[3]
	a)	By improving security	b)	By collecting excessive personal data		
	c)	By minimizing data usage	d)	By enhancing user control		

35	W	hat is "moral responsibility" in AI?			[E]	[3]
	a)	Ignoring the consequences of AI actions	b)	Being accountable for the impact of AI		
	c)	Focusing only on profits	d)	Making decisions without considering ethics		
36	Wh	at is the main challenge in Reinford	eme	nt Learning?	[K]	[3]
	a)	Finding the right data	b)	Balancing trying new things and using known actions		
	c)	Collecting enough rewards	d)	Choosing the environment		
37	Ho	w can AI create bias on social medi	a?		[E]	[3]
	a)	By promoting diverse content	b)	By favoring certain types of posts		
	c)	By increasing user interaction	d)	By filtering out all content		
38	Wh	hich technique helps visualize data?			[A]	[3]
	a)	Clustering	b)	Principal Component Analysis (PCA)		
	c)	Regression	d)	Classification		
39	Wh	nat is "targeted advertising"?			[A]	[3]
	a)	Ads for everyone	b)	Ads aimed at specific user interests		
	c)	Random ads shown to users	d)	Ads based on location only		
40	Wh	at does accountability mean in AI?			[A]	[3]
	a)	Blaming users for errors	b)	Taking responsibility for AI actions		
	c)	Ignoring ethical concerns	d)	Increasing system complexity		

 $(35 \times 1 = 35)$ 

## END OF THE QUESTION PAPER

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[Learning Domain][CO No(s)]

Maximum Marks: 35

		1		<b>t A</b> ice Questions ch question carries one mark		
1	What is the purpose of training a neural network?				[U]	[1]
	a)	To increase network size	b)	To minimize the loss function		
	c)	To initialize random weights	d)	To test its performance		
2	Hov a)	w can AI create bias on social media By favoring certain types of posts	ı? b)	By promoting diverse content	[E]	[3]
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6	Wh	at type of AI model is DALL-E bas	ed of	n?	[K]	[2]
	a)	Convolutional Neural Network (CNN)	b)	Transformer model		
	c)	Recurrent Neural Network (RNN)	d)	Generative Adversarial Network (GAN)		
7	W	hat is the role of AI in video game d	level	opment?	[K]	[2]
	a)	To create non-player characters (NPCs) with realistic behavior	b)	To generate dynamic content		
	c)	To automate game testing	d)	All of the above		
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11	What did Norbert Wiener develop in the 1940s?					[1]

	a)	Deep Learning	b)	Cybernetics		
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	c)	Cost structure	d)	Technical support		
26	What is the goal of natural language processing?					[1]

	a)	Translate human speech	b)	Recognize speech		
	c)	Mimic human emotions	d)	Understand human language		
27	Wh	ich algorithm is used in supervised	learr	ing for classification?	[U]	[3]
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	c)	Creating new words from a root word	d)	Predicting the sentiment of a sentence		
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	a)	More innovation	b)	Better decision-making		
	c)	Unfair practices and misuse	d)	Increased safety		
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<ul> <li>38 What is "targeted advertising"? [A] [3]</li> <li>a) Ads aimed at specific user interests</li> <li>b) Ads based on location only interests</li> <li>c) Random ads shown to users</li> <li>d) Ads for everyone</li> <li>39 Who developed ChatGPT? [K] [2]</li> <li>a) OpenAI</li> <li>b) Microsoft</li> <li>c) Google</li> <li>d) IBM</li> <li>40 What is Playground AI primarily used for? [A] [2]</li> <li>a) Audio editing</li> <li>b) Text generation</li> </ul>		a)	all of the above	b)	javascript		
<ul> <li>a) Ads aimed at specific user interests</li> <li>b) Ads based on location only Ads based on location only</li> <li>c) Random ads shown to users</li> <li>d) Ads for everyone</li> <li>39 Who developed ChatGPT?</li> <li>a) OpenAI</li> <li>b) Microsoft</li> <li>c) Google</li> <li>d) BM</li> <li>40 What is Playground AI primarily used for?</li> <li>a) Audio editing</li> <li>b) Text generation</li> </ul>		c)	c++	d)	python		
interests c) Random ads shown to users d) Ads for everyone 39 Who developed ChatGPT? [K] [2] a) OpenAI b) Microsoft c) Google d) IBM 40 What is Playground AI primarily used for? [A] [2] a) Audio editing b) Text generation	38	Wł	nat is "targeted advertising"?			[A]	[3]
<ul> <li>39 Who developed ChatGPT?</li> <li>a) OpenAI</li> <li>b) Microsoft</li> <li>c) Google</li> <li>d) IBM</li> <li>40 What is Playground AI primarily used for?</li> <li>a) Audio editing</li> <li>b) Text generation</li> </ul>		a)	-	b)	Ads based on location only		
<ul> <li>a) OpenAI</li> <li>b) Microsoft</li> <li>c) Google</li> <li>d) IBM</li> <li>40 What is Playground AI primarily used for? [A] [2]</li> <li>a) Audio editing</li> <li>b) Text generation</li> </ul>		c)	Random ads shown to users	d)	Ads for everyone		
<ul> <li>c) Google</li> <li>d) IBM</li> <li>40 What is Playground AI primarily used for? [A] [2]</li> <li>a) Audio editing</li> <li>b) Text generation</li> </ul>	39	Wł	no developed ChatGPT?			[K]	[2]
40What is Playground AI primarily used for?[A] [2]a)Audio editingb)Text generation		a)	OpenAI	b)	Microsoft		
a) Audio editing b) Text generation		c)	Google	d)	IBM		
	40	Wł	nat is Playground AI primarily used	for?		[A]	[2]
c) Image generation d) Video creation		a)	Audio editing	b)	Text generation		
		c)	Image generation	d)	Video creation		

 $(35 \times 1 = 35)$ 

# END OF THE QUESTION PAPER

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