Printed Page:-03		Subject Code:- BNC0401 Roll. No:										
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NO	IDA I	INSTITUTE OF ENGINEERING A	AND TECHNOLOGY, GREATER NOIDA									
	(An Autonomous Institute Affiliated to AKTU, Lucknow)											
		B.Tech (Workin SEM: II - THEORY EXA	_		•	24- 20	125	`				
		Subject: Artificial Intell			-			,				
Tim	e: 2 F	lours	-8	oj,	-				Max	x. N	Iarl	ks: 50
		structions:										
		y that you have received the question p	-									
		stion paper comprises of three Section MCQ's) & Subjective type questions.	is -A, B, &	C.	It c	ronsis	ts o	f Mi	ипри	e Ci	поіс	e
	•	negs) a subjective type questions. narks for each question are indicated	d on right	-ha	ınd .	side o	f ea	ich q	juesti	on.		
		your answers with neat sketches wher	-			·	,		•			
		uitable data if necessary.										
-		ly, write the answers in sequential orders		L1		al	افسي	11	4 1 - a			
		should be left blank. Any written mate. hecked.	rıaı ajier c	ı Di	апк	sneei	WII	i no	i ve			
	iicei, e.	<i>leened</i> .										
SECT	ION-	<u>A</u>										15
1. Atte	empt a	all parts:-					ار					
1-a.	Pı	rinciple that supports openness in AI d	ecision-m	akiı	ng:	(CO1	,K1)				1
	(a)	Speed										
	(b)	Flexibility	1									
	(c)	Cost-efficiency										
	(d)	Transparency	3									
1-b.	В	ias introduced during model training is	s referred	to a	s: (0	CO2,	K 1))				1
	(a)	Systemic bias										
	(b)	Algorithmic bias										
	(c)	Social bias										
	(d)	Semantic bias										
1-c.	C	onstructing an ethical AI system include	des: (CO3	,K1)							1
	(a)	Interface redesign										
	(b)	Embedded fairness checkpoints										
	(c)	Model normalization										
	(d)	Subsampling										
1-d.	C	opyrights protect (CO4,K1)										1
	(a)	Business plans										
	(b)	Computer hardware										
	(c)	Creative expressions										

	(d)	Logos	
1-e.	E	xample of deepfake misuse (CO5,K1)	1
	(a)	Creating fictional movie characters	
	(b)	Swapping faces to mislead	
	(c)	Enhancing documentary footage	
	(d)	Using voice synthesis in gaming	
2. Atte	mpt a	all parts:-	
2.a.	Id	lentify two examples of dual-use AI applications. (CO1,K2)	2
2.b.	Id	lentify two challenges in achieving fairness in AI. (CO2,K2)	2
2.c.		valuate two risks posed by deploying AI systems without a privacy framework. CO3,K2)	2
2.d.	II	lustrate the significance of user awareness in preventing cybercrimes (CO4,K2)	2
2.e.	E	xplain how AI contributes to disaster management and relief efforts. (CO5,K2)	2
SECT	ION-	<u>-B</u>	15
3. Ans	wer a	any three of the following:-	
3-a.		xplain how cyber laws and AI ethics intersect. Give real-life examples where oth had to be considered together. (CO1, K3)	5
3-b.	L	ist and describe any four types of bias in AI systems. (CO2,K3)	5
3-c.		construct a framework for ethical decision-making in AI-driven hiring platforms.	5
3-d.		lustrate the basic concepts of data encryption and its importance in cybersecurity CO4,K3)	5
3-е.	er	analyze how collaboration between policymakers, researchers, and developers insures responsible and equitable AI deployment in societies worldwide. (CO5, C3)	5
SECT	ION-	<u>-C</u>	20
4. Ans	wer a	any one of the following:-	
4-a.	S	ummarize the importance of fairness and accountability in AI systems.(CO1,K3)	4
4-b.	E	xplain the concept of transparency in AI and how it builds trust. (CO1,K3)	4
5. Ans	wer a	any one of the following:-	
5-a.	E	xplain the concept of fairness in AI systems. (CO2,K3)	4
5-b.	E	xplain how bias can influence AI decision-making. (CO2,K3)	4
6. Ans	wer a	any one of the following:-	
6-a.		xamine the role of incident response planning in AI-driven cybersecurity latforms. (CO3, K3)	4
6-b.		lentify and categorize the risks in AI usage across three sectors: healthcare, nance, and marketing.(CO3, K4)	4
7. Ans	wer a	any one of the following:-	

7-a.	Analyze the ethical concerns related to intellectual property theft in digital environments and its consequences. (CO4, K3)	4
7-b.	Explain cyber security and privacy issues. (CO4, K3)	4
8. Answ	er any one of the following:-	
8-a.	Explain the political impacts of AI on democracy. (CO5, K3)	4
8-b.	Examine how AI can influence transparency and accountability in government processes, (CO5, K3)	4

