_			Subject Code:- BNC0301							
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NC)IDA	INSTITUTE OF ENGINEERING AN						RΝ	OII)A
(An Autonomous Institute Affiliated to AKTU, Lucknow) B.Tech										
SEM: III - THEORY EXAMINATION (2024- 2025)										
		Subject: Artificial Intellige	ence & Cy	ber E	Ethics					
		Hours					Ma	x. M	Iark	s: 50
		structions:	an with th	0.001111	ant a	NIMG A	aada	hno	mah	ata
		fy that you have received the question pap estion paper comprises of three Sections -								
	_	(MCQ's) & Subjective type questions.	11, D, a c	. 11 00	, is is in	, oj 1,1	uuupi	c cn		
_		n marks for each question are indicated o	on right -h	and si	de of	each	quest	ion.		
		e your answers with neat sketches wherev	er necessa	ıry.						
		suitable data if necessary.								
	•	ly, write the answers in sequential order. should be left blank. Any written materia	l after a h	lank c	heet 1	will na	at he			
		should be teji blank. Miy written materia checked.	i ajier a b	iank s	neer	viii rii	n ve			
SEC T	TION-	-A				7	X			15
1. Att	empt a	all parts:-								
1-a.	E	Ethical principles in AI aim to (CO1,K2))				1
	(a)	Promote fairness								
	(b)	Maximize profits	17							
	(c)	Minimize risks								
	(d)	Eliminate errors								
1-b.	, ,	Bias in AI (CO2,K2)								1
	(a)	A preference or prejudice in decision-n	naking							
	(b)	The ability to predict outcomes accurat	_							
	(c)	Lack of fairness metrics in models	Ĭ							
	(d)	Transparency in AI systems								
1-c.	P	PPDM stands for (CO3,K3)								1
	(a)	Privacy-protected device management								
	(b)	Private platform data masking								
	(c)	Privacy-preserving data mining								
	(d)	Private data machine learning								
1-d.	` ′	nsolicited commercial email is (CO4,K3)								1
	(a)	Virus								
	(b)	Malware								
	(c)	Spam								

	(d)	All of the above	
1-e.		ne of these would refer to the exploration of the apt, ethical behaviours that are lated to the digital media platform and online environment (CO5,K3)	1
	(a)	Cybersecurity	
	(b)	Cybersafety	
	(c)	Cyberethics	
	(d)	Cyber low	
2. Atte	empt a	ıll parts:-	
2.a.	Li	st two examples of AI systems. (CO1,K2)	2
2.b.	ex	eplain the bias affect in AI outcomes. (CO2,K2)	2
2.c.	I11	ustrate the primary purpose of AI ethics (CO3,K2)	2
2.d.		iscuss the role of international cooperation in addressing global challenges lated to AI and intellectual property rights. (CO4,K3)	2
2.e.	E	explain the ethical considerations in collecting and using personal data? (CO5,K3)	2
SECT	TON-	<u>B</u>	15
3. Ans	swer a	ny three of the following:-	
3-a.	A	nalyze the challenges in defining AI precisely. (CO1,K2)	5
3-b.	A	ssess the impact of various fairness types on AI models. (CO2,K2)	5
3.c.		iscuss the significance and limitations of PPML in modern AI systems. CO3,K2)	5
3.d.		explain the concept of intellectual property rights concerning AI-generated ontent. (CO4,K3)	5
3.e.		escribe how RPA can improve accuracy and compliance in healthcare.	5
SECT	ION-	\mathbf{C}	20
4. Ans	swer a	ny <u>one</u> of the following:-	
4-a.	D	escribe the significance of AI in modern technology (CO1,K2)	4
4-b.	A	nalyze the role of ethics in AI implementation. (CO1,K2)	4
5. Ans	swer a	ny <u>one</u> of the following:-	
5-a.	E	aborate on outcome fairness with examples. (CO2, K2)	4
5-b.	E	xplain societal implications of fairness in AI. (CO2,K2)	4
6. Ans	swer a	ny <u>one</u> of the following:-	
6-a.	D	iscuss the importance of privacy in AI systems. (CO3,K2)	4
6-b.	E	explain the role of security tools in AI. (CO3,K3)	4
7. Ans	swer a	ny <u>one</u> of the following:-	
7-a.		explain the concept of fair use and how it applies to the use of copyrighted aterial in AI-generated content. (CO4,K3)	4

7-b.	Discuss the legal liability of AI developers and users in cases of harm or damage caused by AI systems (CO4,K3)	4
8. Answ	er any <u>one</u> of the following:-	
8-a.	How can businesses measure the ROI of their social media marketing efforts (CO5,K4)	4
8-b.	Discuss the emerging trends in social media marketing and advertising (CO5,K4)	4

