Printe	ed Pa	ge:- Subject Code:- BNC0401					
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NC	OIDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA					
	(An Autonomous Institute Affiliated to AKTU, Lucknow)						
		B.Tech					
		SEM: IV - THEORY EXAMINATION (20 20) Subject: Artificial Intelligence & Cyber Ethics					
Tim	ne: 2 H	Hours Max. Marks: 50					
		structions:					
		y that you have received the question paper with the correct course, code, branch etc.					
		stion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice					
_		MCQ's) & Subjective type questions.  n marks for each question are indicated on right -hand side of each question.					
		your answers with neat sketches wherever necessary.					
		ruitable data if necessary.					
<b>5.</b> Pre	ferab	ly, write the answers in sequential order.					
		should be left blank. Any written material after a blank sheet will not be					
evalu	ated/c	hecked.					
SECT	TON.	-A 15					
		all parts:-					
1. Au		lentify a key principle of ethical AI.(CO1,K2)					
1 <b>-</b> a.							
	(a)	Efficiency					
	(b)	Speed					
	(c)	Fairness					
1.1.	(d)	Autonomy					
1-b.		denerative AI is susceptible in this type of bias:(CO2,K2)					
	(a)	Speed bias					
	(b)	Caching bias					
	(c)	Hardware bias					
	(d)	Stereotype bias					
1-c.		DPR expands as:(CO3,K2)					
	(a)	General Data Privacy Rights					
	(b)	General Data Protection Regulation					
	(c)	Global Digital Privacy Rule					
	(d)	General Directive for Personal Rights					
1-d. A patent protects:(CO4,K2)							
	(a)	Logos					
	(b)	Written content					
	(c)	Inventions					

	(d)	Domain names	
1-e.	AI role in content moderation (CO5,K2)		1
	(a)	Editing all user content manually	
	(b)	Automatically flagging harmful content	
	(c)	Promoting all viral content	
	(d)	Disabling all image sharing	
2. Atte	empt a	all parts:-	
2.a.	N	ame any two ethical principles in AI.(CO1,K2)	2
2.b.	Id	lentify a common source of bias in generative models.(CO2,K3)	2
2.c.	D	efine the term PPML and name one scenario where it is applied.(CO3,K2)	2
2.d.	N	ame two acts under Indian law that deal with cybercrime.(CO4,K3)	2
2.e.	E	xplain how AI improves global healthcare systems.(CO5,K3)	2
<b>SECT</b>	TON-	$\mathbf{\underline{B}}$	15
3. Ans	swer a	ny three of the following:-	
3-a.		xamine the risks of facial recognition AI in public surveillance. Discuss the ade-offs between safety and privacy.(CO1,K4)	5
3-b.	C	ompare different fairness measurement techniques in AI.(CO2,K3)	5
3.c.		ompare and contrast GDPR and HIPAA with respect to their scope, penalties, and AI relevance.(CO3,K3)	5
3.d.	C	ompare copyrights and patents with respect to purpose and duration.(CO4,K3)	5
3.e.		escribe a day in the life of a worker in a factory where robots are used. Focus on ow their job has changed.(CO5,K2)	5
<b>SECT</b>	ION-	$\mathbf{c}$	20
4. Ans	swer a	ny <u>one</u> of the following:-	
4-a.		xplain the concept of Artificial Intelligence and give two real-world oplications.(CO1,K2)	4
4-b.		iscuss the key principles of Responsible AI as defined by major AI ameworks.(CO1,K2)	4
5. Ans	swer a	ny one of the following:-	
5-a.	D	escribe different types of bias encountered in AI models.(CO2,K2)	4
5-b.	D	escribe two real-world cases of AI bias and their consequences.(CO2,K2)	4
6. Ans	swer a	ny <u>one</u> of the following:-	
6-a.		xplain the importance of privacy in AI-based decision-making through three titable examples.(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	swer a	ny <u>one</u> of the following:-	
7-a.	E	xplain various categories of intellectual property rights (IPR) with suitable	4

## definitions.(CO4,K3)

7-b.	Identify major legal measures available for combating cybercrime.(CO4,K4)	4
8. Answe	er any <u>one</u> of the following:-	
8-a.	Compare the positive and negative effects of AI on privacy rights.(CO5,K4)	4
8-b.	Explain the risks and rewards of using AI for workforce automation.(CO5,K3)	4

