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Total No. of Questions – [3]

	- 6	
G.R. No.		

Total	No.	of F	rinted	Pages:	

[Max. Marks: 30]

PAPER CODE	
PAPER CODE	

May 2023 (ENDSEM) EXAM

T.Y. (Open Elective All Branches) (AY 2022-23 SEMESTER - II)

COURSE NAME: Explainable Artificial intelligence

(XAI) for Engineering Applications

COURSE CODE: IOEUA32205F

(PATTERN 2020)

Time: [1Hr]

(*) Instructions to candidates:

1) Use of scientific calculator is allowed

2) Use suitable data where ever required

3) All questions are compulsory

		Max.	CO	BT
Question	Marking Scheme	Marks	Mapped	
No. Q.1	a) Explanation of importance of the SHAP Values.	[4]	CO3,4,5,6	Analyse
Q.1	Any Suitable example.	[6]	CO,4,5	Evaluate
	b) Explanation of ensemble learning.			
	Explanation of final results are calculation process of			
	Classification problem using ensemble learning			
	OR	[6]	CO,4,5,6	Analyse
	c) Explanation of Keras Text Classification Models using	g [6] CO,4,5,0		7
	SHAP Values.			
	in the handled by the What-If Tool	[4]	CO,4,5	Analyse
Q.2	a) Discussion of the models handled by the What-If Tool	[6]	CO,4,5	Analyse
	b) Explanation of counterfactual explanations. Reasons	[0]	CO, .,c	1
	to use counterfactual explanations.	ļ		
	OR	101	CO 4 F	Analyse
	c) Discussion of counterfactual in XAI	[6]	CO,4,5	Allalyse
	between	[4]	CO,4,5	Analyse
Q.3	a) four technically suitable Differences between counterfactual and contrastive explanations	' ' '	,,	
	b) Explanation of Layerwise relevance propagation (LRP)	[6]	CO,4,5	Analyse
	·			
	with example		-	
	OR time applications with	6]	CO,4,5	Analyse
	c) Reasons for usefulness of contrastive explanations with	01	00,.,0	
	example.			