PRN:		Course Code :	UAM404

Second Year **B. Tech** End Semester Examination Summer 2024

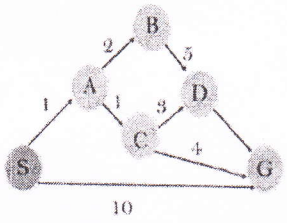
Introduction to Artificial Intelligence

Day and Date: 24 MAY 2024 friday Max Marks: **50**

Time : 10-30 am to 12-30 PM Duration: **02** hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt any two from the following**			
a)	Define AI. Elaborate whether AI is God or Evil.	06	I	CO1
b)	Simplify Classification of AI.	06	IV	CO1
c)	List and Explain AI applications.	06	I	CO1
Q.2	**Attempt any two from the following**			
a)	Apply A* algorithm for following example.	06	III	CO2



State	h(n)
S	5
A	3
B	4
C	2
D	6
G	0

b)	Explain types of search algorithms	06	II	CO2
c)	What is machine learning, give its types	06	I	CO3
Q.3	**Attempt the following**			
a)	What is Regression, Explain in detail with its types	06	I	CO3
b)	Explain Bayes Nets in detail.	07	II	CO3
	or			
b)	Explain semi-supervised learning method in detail.	07		CO2
Q.4	**Attempt the following**			
a)	Analyze dimensionality reduction with PCA in detail.	06	IV	CO3
b)	Examine clustering and k-means clustering with example	07	IV	CO3
	or			
b)	Explain neural networks and back-propagation.	07	II	CO4

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