Paper / Subject Code: 70652 / Artificial Intelligence & Machin Learning

1T00162 - MCA (Sem-II) (R-2020-21) (2 Year Course) / 70652 - Artificial Intelligence & Machin Learning
QP CODE: 10019408   DATE: 28/2/2023.

Time: 3 Hours   **Max. Marks: 80**

N.B.: (1) Q. 1 is compulsory.   **80 Marks**
       (2) Attempt any three out of the remaining five.
       (3) Figures to the right indicate full marks.

Q.1	**A**	Bias/Variance tradeoff	**5**
	B	Intelligent Agent	**5**
	C	Principal Component Analysis	**5**
	D	Activation Function	**5**
Q.2	**A**	Explain Expectation-Maximization algorithm with an example.	**10**
	B	Discuss Dimensionality Reduction in detail.	**10**
Q.3	**A**	Explain K-nearest neighbor algorithm with example.	**10**
	B	Explain Support Vector Machine in detail.	**10**
Q.4	**A**	Discuss Perceptron algorithm with a neat flowchart.	**10**
	B	Explain First order logic with example.	**10**
Q.5	**A**	Explain A* Algorithm with a suitable example.	**10**
	B	Explain Adaline neural network with an example.	**10**
Q.6	**A**	Discuss Alpha Beta search algorithm with a suitable example.	**10**
	B	Explain Random forest algorithm in detail.	**10**

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