

ADMISSION NUMBER

## School of University Polytechnic

Diploma in Computer Science and Engineering Semester End Examination - Aug 2024

Duration : 180 Minutes Max Marks : 100

## Sem III - N1DC301B - Fundamentals of Artificial Intelligence and Machine Learning

<u>General Instructions</u> Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	What is knowledge representation in AI?	K1(2)
2)	Compare and contrast precision and recall in the context of evaluation metrics for machine learning models?	K2(4)
3)	Explain why to Split the Dataset?	K2(6)
4)	Model the subsets of Artificial Intelligence	K3(9)
5)	Identify the different platforms for Artificial Intelligence (AI) development?	K3(9)
6)	Evaluate and interpret the purpose of Deep Learning frameworks such as Keras, TensorFlow, and PyTorch?	K5(10)
7)	Examine the challenges of Sentiment Analysis.	K4(12)
8)	Explain the history of Artificial Intelligence in detail.	K5(15)
9)	Determine how does Reinforcement Learning work? Explain with an example.	K5(15)
10)	Discuss in brief the applications of Artificial Intelligence in E- Commerce?	K6(18)