

# School of Liberal Arts

Political Science

ETE - Jun 2023

Time : 3 Hours

Marks : 100

## Sem II - E2UC220B - AI and Its Applications

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. Describe Knowledge representation and define Searching and its strategies K2 CO1 (5)
2. Define the terminology: K2 CO1 (5)
  - (i) Intelligence
  - (ii) Pixel
  - (iii) Data and Information
  - (iv) Speech Recognition
  - (v) Image Processing
3. List down five real-life applications of AI. K2 CO1 (5)
4. Compare the term ML and AI. K2 CO2 (10)
5. Distinguish between Machine Learning and Artificial Intelligence. K3 CO3 (10)
6. Determine the AI project cycle and data Acquisition and modelling with suitable example. K3 CO3 (10)
- 7) Illustrate Data analysis functions- Sort, Filter, Conditional Formatting, Charts and Pivot with example K3 CO3 (10)

**OR**

- Show the application of supervised ML, explain with suitable example. K3 CO3 (10)
8. Analyse some latest trends in AI? What are the limitations of AI. K4 CO4 (15)
  9. Difference among supervised, unsupervised and reinforcement learning in ML. K4 CO2 (15)
  - 10) Categories latest trends in AI according to people's choices briefly describe. K5 CO4 (15)

**OR**

- What is the use of Artificial intelligence in psychology and sociology Probability and statistics. K5 CO4 (15)