REGISTRATION NUMBER

SRINIX COLLEGE OF ENGINEERING

1ST INTERNAL EXAMINATION-2020-21

Subject- **AI&ML**   Semester-5th   Branch-**CSE**

Full Mark-**60**   Time-**2Hrs**

ANSWER ALL THE QUESTIONS   (GROUP-A)   [2X10=20]

1. What is artificial intelligence?
2. Define agent.
3. Define environment.
4. What is PEAS description of an agent?
5. State the role of sensors and actuators.
6. Differentiate between fully and partially observable environments.
7. Define stochastic environment.
8. Differentiate between supervised and unsupervised learning.
9. What is a rational agent?
10. What is reinforcement learning?

ANSWER ANY FOUR QUESTIONS (GROUP-B)   [5x4=20]

1. Explain simple reflex agent with schematic diagram and program.
2. Differentiate between conditional & unconditional probability. State Baye's theorem.
3. Differentiate between uninformed & informed search strategies.
4. Explain BFS.
5. Explain model-based reflex agent with schematic diagram and program

ANSWER ALL QUESTIONS (PART-C)   [10x2=20]

1. Explain A* algorithm in details.
2. Define Machine learning. Explain supervised, unsupervised, semi supervised and reinforcement learning in details.
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