**Unit- 1, AI**

All questions carry 5 marks

1. What is intelligence? Describe the foundation of AI.

2. How can you define AI from the dimension of behavioral process? When a machine is said to pass Turing Test?

3. Describe how Turing test is used to define AI as acting humanly.

4. What is Turing Test? What properties an agent should have to pass the Turing Test?

5. How philosophy, sociology and economics influence the study of artificial intelligence?

6. How the dimensions like thinking humanly and thinking rationally are used to evaluate intelligence behavior of a machine.

Unit-2

1. How agent can be configured used PEAS framework? Illustrate with example
2. Discuss the types of environments where an agent can work on.
3. What are rational agents? How episodic task environment differs from sequential task environment? Support your answer with suitable examples.
4. What do you mean by rational agents? Are the rational agents intelligent? Explain.

5. Using your own assumptions, design PEAS framework for following intelligent agents.

a. Medicine delivery drone

b. Covid medicine prescriber.

6. Construct a PEAS framework for following intelligent agents.

a. Internet Shopping Assistant

b. English Language Tutor.

7. What is an agent? How utility agent works? Give an example of utility agent.

8. Differentiate between model based and simple reflex agent with an example.

9. What are the properties of intelligent agent? How simple reflex agents work? Give an example of simple reflex agent.

10. Using your own assumptions, design PEAS framework for following intelligent agents.

a. Covid-19 prediction system

b. Vaccine recommender system.

11. What do you mean by Rational Agent? What are differences between Utility based agent and model-based agent?