**DEBRE MARKOS UNIVERSITY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ARTIFICIAL INTELLIGENT TEST TWO**

**FOR 4TH YEAR IT EXTENSION STUDENTS**

**TIME ALLOWED: 20 MIN VALUE: 15 %**

**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ID NO.\_\_\_\_\_\_\_\_\_\_\_SECTION\_\_\_\_**

**Part I multiple choices: Write your answers only on the provided space (10pts)**

1. One is not correct about the agent that uses to handle e-mail and information filtering, this is:
2. Software agent B. Soft boot C. Physical agent D. All
3. Medical diagnosis system is the type of agent that uses to identify symptoms, take and understand patient's answers, this is\_\_\_.
4. Environments B. Percepts C. Actions D. Goals
5. Rational agent that can perform back to the environment, this is
6. Knowledge B. Perception C. Action D. Performance measure
7. Which one of the following is correct
8. Crossword puzzle is episodic C. Medical Diagnosis is episodic
9. Crossword puzzle is static D. Medical Diagnosis is discrete
10. Which one of the following is an example of about simple reflex agents?
11. Innate responses C. Initiate braking
12. Blinking the eye D. All
13. Which one of the following is correct about utility based agent
14. Turn left C. Cheaper than others E. C & D
15. Go straight D. Speed and safety F. A & B

**Part II: Writing, Write your answers on the provided space (6pts)**

1. Why we want to build robots, List at least four reasons?(**2pts**).
2. What is the difference between human beings and agents, list at least four difference(**2pts**)
3. To designing an intelligent agent, one has to remember PEAS, the abbreviation of **PEAS** stands for: (**2pts**)

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**Part I multiple choices: Write your answers only on the provided space (10pts)**

1. One is not correct why we want to build robots?
2. To wash cloth C. To cook food
3. To clean house D. To filter information E. None
4. To design intelligent agent one is not necessary to remember.
5. Sensor B. Performance C. Actuator D. None
6. Which one of the following is use as medical diagnosis system agent for sensors and actuators respectively?
7. Display questions, tests, treatments Keyboard entry of symptoms, finding patients answer.
8. Patient ,hospital, staff healthy patient, minimize cost
9. Keyboard entry of symptoms, finding patients Display questions, tests, treatments answer
10. Healthy patient, minimize cost Patient ,hospital, staff
11. Which one of the following is use as human agent for sensors and actuators respectively?
12. Eyes ,Ears Hands, Legs C. Ears, legs Eyes, mouth
13. Mouth, legs Eyes , Ears D. Eyes, mouth Ears, legs
14. Which one is not correct?
15. Architecture uses to run the program
16. Architecture uses to makes the percept from the sensors
17. Program uses to accepts percept from an environment and generates actions
18. Program uses to enabling a learning mechanism
19. None

**Part II Say True or False: Write your answers only on the provided space (5pts)**

1. Actions are done by the agent on the environment and environments provide percepts to an agent.
2. Agent is something that perceives its environment through effectors and acts upon that environment through sensors.
3. Omniscience agents take action with expected success, whereas rational agent must take action with hundred percent sure of its success.
4. Taxi driving is examples of stochastic and Crossword puzzle is examples of deterministic.
5. Model based agent works by finding a rule whose condition matches the current situation.