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Instructions to candidates

Number of questions: Three (03)

Time allocation: Two (02) hours

Answer all questions.

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1. Answer the following questions
  - a. What is an agent in AI?
  - b. Briefly explain Chinese room thought experiment.
  - c. Briefly explain Alan Turing Test.
  - d. What is an agent program
  - e. Identify the PEAS of the given environment
    - i. Farming robot (e.g. FarmBot)
    - ii. Tutor
    - iii. Personal Assistant
2. Search the four basic types of agents and write notes
  - a. Simple reflex agents
  - b. Model-based reflex agents
  - c. Goal-based agents
  - d. Utility-based agents
3. Write a program to implement the simple reflex agent (Hint: Pseudo code has been given)

```
function Reflex-Vacuum-Agent(  
[location,status]) returns an action  
  
    if status= Dirty then return Suck  
    else if location= A then return Right  
    else if location= B then return Left
```