



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

Course Code: CIT478

Course Title: Artificial Intelligence

Credit: 2 units

Time allowed: 2 Hours

Instruction: Answer Questions **ONE (1)** and any other **TWO (2)**

QUESTION ONE

- a. Explain the concept of Computer vision. **(5marks)**
- b. State Five things AI Systems are yet to do comprehensively. **(5 marks)**
- c. Discuss the major tasks of Natural Language Processing. **(7marks)**.
- d. Outline the formal definition of a search problem. **(5 marks)**
- e. Briefly describe faculties of intelligence. **(5marks)**
- f. List three Expert System areas of commercial applications. **(3marks)**

QUESTION TWO

- a. Write a short note on the mobility features of a robot? **(6marks)**
- b. Explain the differences between information retrieval and information extraction in NLP. **(6marks)**
- c. Briefly describe 4 examples of an agent. **(8 marks)**

QUESTION THREE

- a. Describe the features of frame-based knowledge representation languages. **(8marks)**
- b. Why do researchers perform Natural Language Processing Evaluation? **(6marks)**
- c. Explain the following Terms **(4marks)**:
 - i. Expert system
 - ii. Knowledge Engineer

QUESTION FOUR

- a. Discuss the Modus Operandi of an Agent. **(5marks)**
- b. State the algorithm of the search process. **(5marks)**
- c. Explain the differences between expert task and commonplace task with three examples each. **(6marks)**
- d. List four famous AI systems. **(4 marks)**

QUESTION FIVE

- a. Describe five (5) AI programming languages. **(10marks)**
- b. In what techniques can knowledge be represented? **(6 marks)**
- c. Discuss any two parts of ontology. **(4marks)**