



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_1 EXAMINATION_

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. Summarize the ideas behind Turing Test (5marks).
- b. Discuss the type of database for knowledge management (8marks).
- c. Discuss how knowledge representation can best be understood in terms of five distinct roles it plays (5marks).
- d. Schematically illustrate the search problem (10marks).
- e. List the Expert System areas of commercial applications (2marks)

QUESTION TWO

- a. Distinguish between two known uninformed search techniques in Artificial Intelligence (5marks).
- b. Describe the importance of knowledge representation in the function of computer system (5marks).
- c. Write short note on Information Processing Language (5marks).
- d. List five(5) types of AI Search Techniques (5marks)

QUESTION THREE

- a. Outline the importance of Machine Learning application in Natural Language Processing (5 marks).
- b. Discuss the following Terms (3 marks each):
 - i. Internet Agents
 - ii. Tree search algorithms:
 - iii. Inference Rule
 - iv. Actuators

QUESTION FOUR

- a. Identify the differences between fully observable and partially observable intelligent agent environment. (6marks)
- b. Elaborate the three major kind of people that are involved in expert system interaction (9marks).
- c. Highlight five(5) common tasks that are frequently performed in Natural Language Processing ? (5 marks)

QUESTION FIVE

- a. Outline the generic best first search algorithm. (9 marks)
- b. Differentiate between Glass- Box and Black- Box Evaluation (6marks)
- c. Identify the major domains of Artificial Intelligence (5marks)