



NATIONAL OPEN UNIVERSITY OF NIGERIA
91 CADASTRAL ZONE NNAMDI AZIKIWE EXPRESSWAY, JABI ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2024 1 EXAMINATION

COURSE CODE: CIT 478

COURSE TITLE: ARTIFICIAL INTELLIGENCE

COURSE UNIT: 2

TIME: 2HRS

INSTRUCTION: ANSWER QUESTION ONE AND ANY TWO (2) QUESTIONS

1. Explain the following Terms

(3marks each):

- a. Computer Intelligence
- b. NLP
- c. Cognitive Science
- d. ANN
- e. Machine Learning

1(b) Compare Expert tasks and common place task relative to computer replication of same
(12marks)

1(c) Mention three components of expert system

(3 marks)

2. (a) Briefly state the working mechanism of Best-First Search Algorithm

(10marks)

2(b) Enumerate the goal and the functionality of Greedy Search Algorithm **(10marks)**

3(a) How do PROLOG describe relation in terms of Rules and Facts? **(14marks)**

(b) Write brief on PROLOG programming language

(6marks)

(c)

4(a) A modern passenger airliner is essentially a flying robot, discuss**(6marks)**

4 (b) How difficult is it for computer to interpret continuous flow of sound? **(14marks)**

5. (a) Write short note on the two methods of reasoning in AI applications.

(14 marks)

5(b)Expert System can be of different form, name them. **(6marks)**