

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2018/2019 SEMESTER EXAMINATION

COURSE TITLE: ARTIFICIAL INTELLIGENCE **NO OF QUESTION: 6**
COURSE CODE: COM 423/CTE 422 **TIME: ALLOWED: 2HRS**
FOR WHOM: HND II CS, CE **FT**
INSTRUCTIONS: Answer any four

Questions.

1. (a) Some definitions of Artificial Intelligence were organized into the following four(4) groups. Give two(2) definitions each of Artificial Intelligence under each of the following categories:

(i)	System	that	THINK	like	humans
(ii)	System	that	ACI	like	humans
(iii)	Systems	that	think		RATIONALLY
(iv)	Systems	that	act		RATIONALLY

- (b) Explain the Breadth-First Search Technique and state two(2) of its advantages
- (c) List and explain five(5) application areas in Artificial Intelligence

2. (a) (i) What are the goals of Artificial Intelligence
 (ii) What are the Technique of AI?
 (iii) What are some of the Limitations or danger you see in the use of Artificial Intelligence?

3. (a) Define Intelligence
 (b) Explain five(5) types of intelligence
 (c) Discuss the composition of Intelligence

4. (a) Define an Agent.
 (i) What is Rational Agent?
 (b) Describe the salient features of an Agent
 (c) Describe bounded rationality

5. (a) What is Machine Learning
 (b) How do an Artificial Neural Network Learn?
 (c) With the aid of a diagram explain the Neuron as a simple computing element

6. (a) Define the following:
 Dendrite, Synapse, Axon, Connection, Pattern Recognition, Perception Weight.
 (b) Explain the Turing Test
 (c) What is Expert System?