



[University of Choice]

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY [MMUST]

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

COURSE CODE:

BCS 217

COURSE TITLE:

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

DATE:

07/12/2022

TIME: 12.00-2.00PM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and choose any other Two.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE [30 MARKS]

a)	Define the term Natural Intelligence.	{2 marks}
b)	Briefly explain the four things that are used in differentiating the types of intelligence.	{8 marks}
c)	Give a brief outline of the of four early branches of artificial intelligence.	{8 marks}
d)	Define the term AI to represent systems that act rationally specifying the author[s].	{4 marks}
e)	What benefits does Artificial Intelligence bring to modern families?	{8 marks}

QUESTION TWO [20 MARKS]

a)	What is the difference between the searches in Artificial Intelligence?	{4 marks}
b)	How can a real time search problem be improved? Explain briefly.	{6 marks}
c)	Explain the turing test application in the modern world.	{10 marks}

QUESTION THREE [20 MARKS]

a)	According to AI, human beings are still better that computers. Explain.	{10 marks}
b)	Explain knowledge representation in terms of the unique role it plays in AI.	{10 marks}

QUESTION FOUR [20 MARKS]

a)	Describe the distinction between the early and later development of AI.	{8 marks}
b)	Define the real time application of an intellgent agent.	{4 marks}
c)	Construct a PEAS for an Insurance Company agent.	{8 marks}

QUESTION FIVE [20 MARKS]

- a) Expert systems differ from conventional computer systems in several ways. Using a diagram differentiate the two types of systems. {10 marks}
- b) In Artificial intelligence, what do you understand by knowledge based and experimental Systems.

(10 marks)