



PAN AFRICA CHRISTIAN UNIVERSITY

(DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY)

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: DICT 0214

CAMPUS: ROYSAMBU

COURSE TITLE: INTRODUCTION TO ARTIFICIAL INTELLIGENCE

EXAM DATE: MONDAY, DATE (DDTH MONTH YEAR)

TIME: START HOUR – END 02:30-05 :30 HRS

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer All questions in Section **A** and any other THREE questions in Section **B**.
- None programmable calculators permitted
- Calculators on phones, tablets and computers are NOT permitted in Theory Papers

SECTION A

(Answer ALL questions in this section)

SECTION A (10 Marks)

Question 1:

- a) Define the term Artificial intelligence (2 Marks)
- b) Artificial intelligence is one of today's fastest advancing technology. Discuss the advantages of AI to the human society (8 Marks)

SECTION B

(Answer any THREE (3) questions in this section)

Question 2:

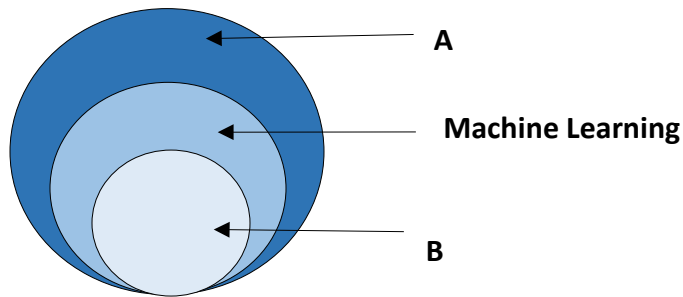
AI aims to develop a machine that has equal or surpassing capabilities to a human being. Discuss the challenges of mimicking human intelligence. (10 Marks)

Question 3:

Artificial Intelligence can be applied in different areas and in various ways in today's world. Discuss five application areas of AI. (10 Marks)

Question 4:

- a) Alan Turing test is still applicable today as a tool for testing AI. Discuss the disadvantages of using the Turing test (5 Marks)
- b) The diagram below shows three fields of AI that are closely related. (5 Marks)



- i. Identify the labelled parts
- ii. Discuss the differences between the identified fields of AI

Question 5:

- a) Discuss three types of AI based on functionality (6 Marks)
- b) Knowledge base and inference engine are components of an expert system.
Discuss the differences between the two. (4 Marks)

Question 6:

"AI is not safe" is a misconception towards the advancement of artificial intelligence technology. Discuss the statement. (10 Marks)

THE END