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| [UNIVERSITY LOGO] Upload logo in export form | **COMPREHENSIVE TEST UNIVERSITY** Computer Science & AI **COMP101 - Question Types Test** *Academic Year: 2024-2025 | Fall Semester* |

Instructor: Test Instructor

### STUDENT INFORMATION

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| **Student Full Name:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Student ID/Number:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

## INSTRUCTIONS:

1. Read all instructions carefully before beginning  
2. Write your answers clearly in the spaces provided  
3. For multiple choice questions, circle the letter of your answer  
4. Show all work for calculation problems  
5. Check your answers before submitting

# Comprehensive Question Types Test

*Duration: 45 minutes | Total Points: 23*

## INSTRUCTIONS

&bull; Read each question carefully and completely before answering

&bull; For multiple choice questions, select the best answer

&bull; Write clearly and legibly for all written responses

&bull; Show all work for calculation problems where applicable

&bull; Review your answers before submitting

&bull; Ask the instructor if you have any questions

**Question 1.** (2 points)

Which of the following is a programming language?

A. Python

B. Microsoft Word

C. Adobe Photoshop

D. Google Chrome

**Question 2.** (1 point)

Artificial Intelligence can only work with numerical data.

A. True

B. False

**Question 3.** (3 points)

Define machine learning in 2-3 sentences.

**Answer:**

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**Question 4.** (8 points)

Discuss the ethical implications of artificial intelligence in modern society. Include at least three specific examples and their potential solutions.

**Answer:** (Use the space below for your complete response)

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**Question 5.** (2 points)

The process of teaching a machine learning model using labeled data is called \_\_\_\_\_\_\_ learning.

**Answer:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 6.** (4 points)

Match the following AI concepts with their definitions.

**Question 7.** (3 points)

Arrange the following steps in the correct order for a typical machine learning workflow: