

Final Test - PictoBlox AI

Instructions

Answer all questions. Total Marks: 50

Time Allowed: 1 hour

You may use PictoBlox during the practical part of this test.

Part A: Multiple Choice Questions (10 points)

1. Which of the following is NOT an AI task?

- a) Recognizing speech
- b) Translating languages
- c) Brushing your teeth
- d) Playing chess

2. In PictoBlox, which extension is used to recognize faces?

- a) Tobi
- b) AI
- c) ML Environment
- d) Control

3. What does a classification model do?

- a) Builds websites
- b) Sorts data into categories
- c) Detects objects
- d) Sends messages

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Part B: Short Answer Questions (15 points)

1. Explain how face detection works in PictoBlox using the AI extension.
2. Describe a real-world example of machine learning.
3. What are the steps to train a model in the Machine Learning Environment of PictoBlox?

Part C: Project Design Task (25 points)

Design a PictoBlox program using the AI extension to detect hand gestures and control a sprite on the screen.

Include:

- A description of the features used
- Steps taken to create the project
- A screenshot or code sample (submit separately)

Rubric:

- Concept Understanding (5)
- Tool Usage (5)
- Functionality (5)
- Creativity (5)
- Documentation (5)