test exam - Exam Paper

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■ True/False Questions

- Write 'True' or 'False' clearly in the box.

1. Artificial Intelligence can operate without any data. [2 marks] Both

2. Moore's Law predicts the number of transistors on a chip doubles approximately every two years. [2 marks] false

■ Multiple Choice Questions

- Write the letter of the correct option.

3. Which of the following is NOT a type of Machine Learning? [3 marks]
   A) Supervised Learning B) Reinforcement Learning C) Unsupervised Learning D) Manual Learning B

4. Which company developed the transformer architecture that powers models like ChatGPT? [3 marks]
   A) Microsoft B) OpenAI C) Google D) Facebook B

■ Short Answer Questions

- Write your answer inside the box.

5. What is the primary goal of Natural Language Processing (NLP)? [5 marks] to find the perfect way in computer to understand humanity or else.

6. Define the Turing Test. [5 marks] the difference between the human and computer mimic conversation.

■ Long Answer Questions

- Write your detailed response below.

7. Explain how Artificial Intelligence is transforming education. Provide 2 examples. [10 marks]

By improving study quality and focusing on student power and weak points and providing the perfect way of teaching. Example one: Google forms.
Example two: YouTube.

8. Write a Python function called fibonacci(n) that returns the nth number in the Fibonacci sequence. [10 marks]

```
def fibonacci(n): return reduce(lambda a: a + [a[-1] + a[-2]], range(n-2), [0,1]) if n>0 else "invalid"
```