

22 Lecture - CS302

Important Mcqs

1. What does ABEL stand for in relation to digital circuit design?

1.

A) Advanced Boolean Expression Language B) Analog Binary Electronics Language C) Advanced Binary Electronics Language D) Analog Boolean Expression Language **Answer: A**

2. What is an ABEL input file used for in digital circuit design?

A) To program the GAL16V8 device B) To create a physical circuit board C) To analyze the behavior of a circuit D) To create a software simulation of a circuit **Answer: A**

3. What is the purpose of a quad 1-of-4 MUX?

A) To select one of four inputs to pass through to the output B) To perform arithmetic operations on multiple inputs C) To generate a clock signal for a digital circuit D) To store data in a register **Answer: A**

4. What does MUX stand for in digital circuit design?

A) Multiple Unit X-ray B) Multiplexer C) Multi-dimensional X-coordinate D) Multi User X-server **Answer: B**

5. What are the input pins of a quad 1-of-4 MUX?

A) A, B, C, D B) S0, S1, S2, S3 C) EN, D0, D1, D2, D3 D) CLK, D, Q **Answer: A**

6. What are the selection lines of a quad 1-of-4 MUX?

A) S0, S1 B) EN, D C) A, B, C, D D) CLK, Q **Answer: A**

7. How many output pins does a quad 1-of-4 MUX have?

A) 1 B) 2 C) 4 D) 8 **Answer: 1**

8. What is the purpose of the logical equations in an ABEL input file for a quad 1-of-4 MUX?

A) To determine the output based on the selection lines B) To program the GAL16V8 device C) To create a software simulation of the MUX D) To analyze the behavior of the MUX **Answer: A**

9. Which type of language is ABEL?

A) High-level programming language B) Low-level programming language C) Hardware description language D) Assembly language **Answer: C**

10. What is the GAL16V8 device used for in digital circuit design?

A) Implementing custom logic functions B) Generating clock signals C) Storing data in registers D) Performing arithmetic operations on multiple inputs **Answer: A**