21 Lecture - CS302

Important Mcqs

- 1. **What is the GAL16V8?** A) A type of microcontroller B) A type of programmable logic device C) A type of analog circuit D) A type of memory chip **Answer: B**
- 2. What does GAL stand for in GAL16V8? A) Gate Array Logic B) Generic Array Logic C) Generalized Array Logic D) Graphics Array Logic Answer: B
- 3. Which of the following is true about GAL16V8? A) It contains a programmable AND array and a fixed OR array B) It contains a programmable OR array and a fixed AND array C) It contains both a programmable AND array and a programmable OR array D) It contains a fixed AND array and a fixed OR array Answer: C
- 4. **How is the GAL16V8 programmed?** A) Using a software tool B) Using a hardware programmer C) Both A and B D) None of the above Answer: C
- 5. Which of the following applications has the GAL16V8 been widely used in? A) Digital cameras B) Microwave ovens C) Control systems D) Home appliances Answer: C
- 6. What type of logic circuits can GAL16V8 implement? A) Only combinatorial logic circuits B) Only sequential logic circuits C) Both combinatorial and sequential logic circuits D) None of the above Answer: C
- 7. Which of the following is a feature of GAL16V8? A) It can only implement simple logic circuits B) It can be reprogrammed multiple times C) It is very expensive compared to other PLDs D) It can only be programmed using a hardware programmer Answer: B
- 8. What is the maximum number of inputs and outputs in GAL16V8? A) 16 inputs and 8 outputs B) 8 inputs and 16 outputs C) 16 inputs and 16 outputs D) 8 inputs and 8 outputs Answer: C
- 9. What is the maximum number of product terms that can be programmed in GAL16V8? A) 8 B) 16 C) 32 D) 64 Answer: D
- 10. Which of the following is not true about GAL16V8? A) It can implement simple state machines B) It has a low power consumption C) It is not suitable for high-speed applications D) It can be used as a replacement for discrete logic gates Answer: C