Computer Science (New Book) - 9thClass Computer Science English Medium Chapter 3 Preparation

Q1. Define Analog Signals

Ans 1: Analog signlas are signals that changes with time smoothly and continously over time They can have any value within given range. Examples include voice signal body's temperature and radio wave signals.

Q2. What is the crucial elemet of digital circuit.

Ans 1: A crucial elemetn of digital circuit design is th logical diagram which represents the structur oe fthe circuit by showing connnections between logic gates.

Q3. What do you knwo about minterm.

Ans 1: In Boolean algebra, a minterms is a particular product term whereby every varaibel of the function is present in either I its true form or iots complement Each minterm corresponds to one and only one set of variable values that makes the Boolean functino equal to true or 1.

Q4. What are the Boolena Functions.

Ans 1: Boolean functions are mathematical expressions that represent logicla operations involving binary variables.
Exaple : AND, OR, NOT

Q5. What do you know about NOT Operation.

Ans 1: The NOT operation the simplest logical opertionin Boolean algebra, which accept a single binary inputs and gives its opposite as the outputs.

Q6. Define Digital Logic.

Ans 1: Digital logic is the basis of all digital systmes. This is the technique we use to process digital information in the form of binary numbers.

Q7. What do you knwo about OR operation.

Ans 1: In an OR gate, the result is 0 only when both the input values are 0. Otherwise, the output is 1.

Q8. What is Boolean Algebra.

Ans 1: Boolean algebra is a sub discipline of mathematics based on operations involving binary variables.

Q9. What are the figital systems.

Ans 1: Digital systems are teh basis of the present day electronics and computing They process digital data in form of 0 and 1

Q10. Explain the word propagation delay interms of digital logic gates.

Ans 1: Propagation delay is the time it takes for an input change to result in an output change in a logic gate. It influences the overall performance of digital circuits.
