**Internal Assignment**

**Set- 1st**

**1. What is number system? Explain how to convert decimal number to binary number with example?**

**Ans.** A number is a mathematical value used for counting and measuring objects, and for performing arithmetic calculations. Numbers have various categories like natural numbers, whole numbers, rational and irrational numbers, and so on. Similarly, there are various types of number systems that Its Half solved only

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**2. Define Boolean Algebra. Simplify the following expression using Boolean algebra?**

**a. A+AB**

**b. AB +AB’**

**c. A’BC+AC**

**d. A’B+ABC’+ABC**

**Ans.** A system of [algebra](https://www.merriam-webster.com/dictionary/algebra) in which there are only two possible values for a variable (often expressed as true and false or as 1 and 0) and in which the basic operations are the logical operations [AND](https://www.merriam-webster.com/dictionary/AND)

**3. Define K-map? Simplify f (a, b, c, d) =∑m(0, 2, 4, 6, 7, 8, 9, 11, 12, 14).**

Ans. A Karnaugh map (K-map) is a pictorial method used to minimize [Boolean](https://whatis.techtarget.com/definition/Boolean) expressions without having to use Boolean

**Set- 2nd**

**4. Define Sequential Circuits. Draw and explain the working of JK, S-R, D Flip-Flops?**

**Ans.** The sequential circuit is a special type of circuit that has a series of inputs and outputs. The outputs of the sequential circuits depend on both the combination of present inputs and previous outputs. The previous

**5. What is a Digital counter? Explain types of counters in digital circuit?**

**Ans.** A Digital Counter is obtained by arranging the [flip-flops](https://www.watelectronics.com/flip-flops/). These are the applications of flip-flops. Other than counting,

**6. Explain the design of an electronic tennis scoring system?**

**Ans.** The present tennis scoring system includes input devices for each player to indicate whether one player or the other has won a particular point. These input devices for each player may be in the form of transmitters each having two recessed pushbutton switches, one to indicate that one player has won the point and the other to indicate that the opposing player has won the particular point.

The input device may