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Q.2

Ans :-

SECTION - 2

The tower of Hanoi is a mathematical game or puzzle. it consists of three rods and a number of disks of different sizes, which can slide onto any rod. the puzzle starts with the disks in a neat stack In ascending order of size on one rod, the smallest at the top, thus making a Conical shape.

The objective of the puzzle is to move the entire stack to another rod, obeying the following simple rules:-

① only one disk Can be moved at a time.

② Each move Consists of taking the upper disk from one of the stacks and placing it on top of another stack or on an empty rod.

③ No larger disk may be placed on top of a smaller disk.

Applications:-

(1) The tower of Hanoi is frequently used in psychological research on problem solving. there also exists a varient of this task called tower of london for neuropsychological diagnosis and treatment of executive functions.

(2) The tower of Hanoi is also used as a backup rotation scheme when performing computer data backups where multiple tapes/media are involved.

(3) This knowledge has impacted on the development of the TURF framework for the representation of human computer interaction.