

## SECTION - 2

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The Tower of Hanoi (also called the Tower of Brahma or Lucas' Tower and sometimes pluralized as Towers) is a mathematical game of 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 of 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.

Application :-

- ① The Tower of Hanoi is frequently cited in Psychological research on problem solving.

There also exists a variant of this task called Tower of London for neuro psychological diagnosis and treatment of executive function.

② Zhang and Norman used several isomorphic representations of the game to study the impact of representational effect in task design.

③ This knowledge has impacted on the development of the TURF Framework for the representation of human-computer interaction.