## Theory of Operant Conditioning

## [B.F. skinner]

operant conditioning is the perocess through which organism learn to repeat behaviours that yield +ve outcome

#### Other names.

- > Reward learning.
- > Instrumental conditioning { responses emitted from the learner acts as instrument for bringing reinforcement?
- -> R-type conditioning. { The emitted response is conditioned }

# Experiment was done on rate

It is similar to that of Thorndike's experiment. Skinner designed a box called skinner box, which was a modified form of Thorndike's puzzle box. He placed a hungry but rat in the above described box. when the rat presses the lever inside the box, it gets a pellet of food. Gradually the rat learned to press the lever to get the food.

Although the experiment was similar to that of Thorndike's experiment, the explaination given by skinner was entirely different.

According to him, there are two types of responses.

Elicited responses (respondents)

these are always connected to some known stimulus  $\{S-R\}$ 

Emitted responses.
(operants)

these are actions performed by organisms that are not connected to any known stimuli {R?

In operant conditioning, operants (emitted responses) are made mone frequent by providing neinforcement?

when an operant is immediately perovided with a stimulus, it can be strengthed or weakened depending upon the stimulus provided.

The stimulus provided can be either reinforcement or punishment.

	Reinforcement	Punishment.
tve Positive	adding pleasant stimulus. strengthens R	adding unpleasant stimulus Weakens R
— ve Negative	removing unpleasant stimulus. strengthens R	Removing pleasant stimulus. Weakens R

### Educational implications

- >> By paoviding an immediate stimulus for a particular response, the ba aesponse can be either strengthened or weakened.
- > Positive neinforcements can be used for developing good behaviour in children.

Similarly, bad habits can also be eliminated.

> The theory of operant conditioning has contributed a lot to the development of teaching machines and programmed learning.

