fifth lecture.

Cognitive theory

Jean piaget(1896-1980) is considred the father of this theory.

Definition.

Cognitive theory explains haw a child construts a mental model of the world, and regarded cognitive development as a process that occurs due to biological maturation and interaction with the environment.

Piaget is famous for his four stages of cognitive development, child hasto understand a concept before they can acquire the practical language witch express that concept.

Stages of cognitive developement.

Sensory-motor (birth to2years)

infant and toddlers are learning about the world throught motor and sensory experiences. intially ,language is limited to infants because they must first experience the world and developmental shemas as a way to represent these experience. D uring this earliest stage,children and toddlers acquire knowledge through sensory experiences and manipulating objects (senses and motor responses).

preoperational stage of cognitive development.

(2to7years)

Children begin to think symbolically and learn to use words and pictures to represent objects.

- -they tend to be egocentric and struggle to see things from the percpective of athers.
- Getting better with language and thinking, but still tend to think is very concerate think.

At this stage, kids learn throught pretented play but still struggle with logic and taking the point of view of ather people.

concrete operational stage.

children becomes much more adept at using logic ,the egocentrism begin to disapear.they stert to think logicaly about concerete events.they olso to begin understand the concept of concervation,they tend to struggle with abstract and hypothetical concepts.

Formal operational stage.

(12-18)

Adolescent and yong adults become capable of seeing multiple potential solution to problems and think more scientfically about the world around them. Thy begin to think abstracly and reasan about hypothetical problems.start to think about moral,phylosophical,ethical, social,and political issues that require critical and abstract resoning and plan for the futur and reasan.

Most important cocepts of cognitive theory.

Schemas.

Describes both the mental and physical action involved understanding and knowing they help to interpre and understand the word.

Assimilation.

The process of taking in new information into our olready existing.

Accomodation.

Anather part part of adaptation is the ability to change existing Schemas.

Equilibration.

It is important to maintain a balance between applying previous knowldge (assimilation) and changing behaviour to account for new knowldge(accomodation).

The application of cognitive theory.

-Education —training and developement —problem solving and decision making in olso cognitive therapy-artificial inteligence and machine learning.

Criticism.

This theory is not directly obsorval, neglected cultural and social factor, the methodology is not clear

It overestimated the ability of adolescents and underestimated the capasity of infants, it olso neglected individual choice and undervalues emotions.

Ignores the sever of contain priory of morals ,laws, and social norms.