MEMORY CHAPTER

* MEMORY: The process by which we encode, store and retrieve information.

OR

. An active system that seceives information from the senses, puts that information into a usable form, & organizes it as it stores it away, and then retrieves the information from storage.

* MEMORY PROCESS:

Encoding -> [Storage] -> [Reteinal]

· ENCODING: Repers to the way impormation is first represented in a memory system.

· Processing information into memory is called encoding.

Examples: If you meet someone for the first time at a party, you need to encode her name (Uzma) while you associate her maine with.

her pace.

today, more than likely you could recall this information quite easily.

. The process of hearing a sound that has been spoken out loud & writing it down.

Looking at a traffic light & encoding whether it is a red or green light, instead of focusing on trees or plants surrounding the car.

- · STORAGE:
- . The second compartment of menory is storage which involves the "wavehousing of the important that has been acquired.
- · Storage is the maintenance of encoded information in over time. After encoding the information in mind, the information is than saved in such a way, that it would not lost.
 - . Therefore, we can say that storage process is the process in which we store our information that we have encoded in the first step of memory.

you have looked up in the phone book?

To you can see it, then you are using visual coding, but if you are repeating it to yourself, you are using occurred,

· RETRIEVAL: It is the process of getting information out of memory.

. It is the ability to access information when you need it.

Example: Ap you are trying to remember the name of a person you not at a party, you will need to retrieve that importation from

=> Automatic & effortful: = E:9:

when asked your father's name, reteined is automatic, but when asked the name of your first grade teacher, reteined is now effortful.

RETRIVAL CUES: - It is a prompt that help les remember.

CUE > Objects or events that help trigger an action of a memory of that action.

- Stimuli that help people esteiene memories.
- Ketrieval cues can be present in the enternal environment, such as sounds, med the smell, & sights. (Content dependent) Estimated.
- It can also be internal to the person states or feelings. (state dependant) En such as physical states or feelings. (state dependant) En such as physical was book or Time OF RETRIEVAL:
- THREE TYPES OF RETRIEVAL'S
- There are three ways you can reterieve information out of your long-term memoly stolage system.
- 1) Recall: is what we most opten think about when we talk about memory reteieval: it means you can access information without curs.

E:g: You would use recall for an essay test.

Eig: Enamination hall is the best enample of recalling the past data.

Eig: Recalling the name of a person.

Eig: Answeling to a question.

- 2) Recognition: It is identifying something you learned previously & is therefore stored in some manner in memory.

 OR
 - · A feeling of familiarity for a previouslyencountered stimulus.

E:9: When an individual encounters a person they know they have met before but cannot recall their name.

E.g. Multiple choice questions, Tene / False,
Yes/No etc.

E:9: Recognizing a familiae face without being able to recall the person's name.

3) Releasing famings: (occurs once the mind is emposed to

- . Learning information that you previously learned.
- . It measures how much faster someone can learn material that has been previously learned & then forgetten.
- E:g: People can quickly regain their ability to ride a bike or play a musical instrument after not practicing for an extended period.

Eig: Memory of algebra

Eig: It took you ten hours to memorize the entire speed. At the end of the school year, you had to release the material. But this time, you were able to recite the material. But this time, you were able to recite the speech plantestly after only fine hours of studying.

my took you half the time to releasen the "TYPES OF MEMORY ICONIC MEMORY SENSORY MEMORY ECHOIC MEMORY SHORT- TERM MEMORY MEMORY DECLARATIVE EXPLICIT MEMORY LONG- TERM SEMANTIC EPISODIC MEMORY MEMOKY MEMORY NON- DECLARATIVE/ IMPLICIT MEMORY CONDITIONAL PROCEDURAL DISPOSITION MEMORY MEMORY

- 1) SENSORY MEMORY:
- in the memory system is called sensory memory.
- . Information first enters in one memory system by means of sense organs. This information is placed in the first system, the sensory system.
- . Sensory memory has a limited duration to store information, typically less than a second.
- a) ICONIC MEMORY:
- . It is the nisual sensory memory register that stores visual images after its stimulus has ceased (Pratter, 2018).

Egg: feeing an ant on the wall.

Eig: feeing an aircraft in the sky as you walk down the road.

E.g: feeing the change in teappie lights.

- b) EcHOIC MEMORY:
- · It is a type of sensory memory that experipically pertains to auditory information (sounds).
- . It repers to the being retention of sounds in one memory after the original moise has ceased.
- · This short-teem auditory memory, which can last several seconds, allows the beain to process & comprehend sounds & spoken language

after the sound is no longer present Hearing the back of a police officer.

E.g.: Hearing the whistle of a police officer.

Activity: Clap your hands together once & see how the sound remains for a brief time.

& then pades away

- 2) SHORT- TERM MEMORY: (STM) (lasts up to 30 seconds & longer man 30 seconds if rehealed)
- . Short-term memory is the capacity to store a small amount of information in the mind and keep it readily available for a short period of time.
- . Also known as primary or active memory.
- . The amount of information that can be stored in short-term memory can vary.
- In 1956, in an influential paper titled "The Magical Number Seven, Plus or Hims Two," psychologist George Hiller suggested that people can stoke hw fine & nine items in short-term memory.
- . More secent sesearch suggests that people are capable of storing approximately four churchs of pieces of information in short-term manaly.

CHUNK: A group of familiar stimuli stores as a single unit in short-teem memory. Eig: A chunk can be a group of seven individual letters or numbers, permitting us to hold a seven-digit phone number (such as 226-4610) in short-teem memory.

E.g. Amagine that you are trying to remember a phone number. The other person rattles off the 10-digit phone number, & you make a quick mental note. Homents later you realize that you have already porgotten the number without reheasing or continuing to repeat the number until it is committed to memory, the information is quickly last from short-term memory.

E:9: Taking notes, E:9: Reading a book, E:9: Listening to Lecture,

3) LONG-TERM MEMORY:- E:9: Playing games

. The selatively permanent and limitless store house of the manory system is called long term memory.

. LTM is memory that can last as little as a few days or as long as decades.

- · LTM consists of memories that the brain has stored over an entended period of time.
- of time.

g: Adentifying a song from a few notes & semenbering its lycies.

E:9: Important life events (memory, deathete)

E.g: The memory of how to side a bike.

E:9: Remembering where we went on vacation the past summer.

* TYPES OF LONG-TERM MEMORY:

- 1) EXPLICIT / DECLARATIVE MEMORYI (with conscious recall).
- · It is a type of memory that lequires conscious thought.
- This memory is recall of realistic information such as dated, words, faces, events & concepts.

 For enample; Remembering the capital of France,

 the rules for playing football and what

 happened in the last game of the

 World Series involves declarative memory.

 Eig: Recalling specific details about an academic lecture you attended lastweek.

 This involves the conscious recollection of party of information & events.

 Declarative memory is instally considered.

to be explicit to it implies conscious, intentional remembering.

* Two TYPES:

- a) femantic Memory
- b) Episodie Memory

- a) semantic Memory:
 - . It is a type of englicit mamory.
 - . It refers to our general world knowledge that we have accumulated throughout our lives (Tulning, 1973).
 - . It consists of your entire knowledge base including your mocabulary, concepts & ideas.
 - It is an organized record of facts, concepts & skills that we have acquired.
 - Eg: Vocabulary.
 - E:9: Conceptual knowledge.
 - Eig: Facts (like "Paris is the capital of France).
 - Eig: Earth revolves around the sun.
 - Eig: fun lises in the East & sets in the west.
 - Eig: Humans are mammals.
 - b) Episooic Memory:
 - It refers to one ability to recall personal experiences from one part.
 - . This aspect of memory organizes information around episodes in one lives.

 Eg: Remembering your pirst day at school.

 - Eig: What we ate for breakfast.
 - Eg: What happened during out childhood.
 - E:q: A mercie we saw last week

TAPLICIT/ NON-DECLARATIVE: (without conscious becall) It repers to information that is remembered unconsciously & without effort. Eg Your ability to side a bicycle even if you haven't done it for years. . This memory deals with learned skills that occur without conscious awareness (Gabrieli, 1998). Eig: Typing Eig: Bushing teeth E.g. Drewing everyday Eig: Linging a familial song. Eig: Cooking, walking, talking, driving * Two Types: a) PROCEDURAL

L) CONDITIONAL DISPOSITION

a) Procedural Memory:

It repers to knowledge about how to do things. Repus to motor shills & habits that are automotic

. Tasks that require a procedure, or how to

It is the memory for skilled actions.

Eig: How to brush your teeth. Step-by step

E.g. How to dive a cal.

Eg: How to swim

- · When you inconsciously learn to associate one thing with another.
- classical conditioning effect, in which we learn, often without effort or awareness, to associate neutral stimuli (such as a sound of a light) with another stimulus (such as food), which creates a naturally occurring response, such as enjoyment or salination.

Eig: Whenever you come home wearing a baseball cap, you take your child to the park to play. So, whenever your child sees your come home with a baseball cap, he is come home with a baseball cap, he is excited by he has associated your baseball cap with a teip to the park.

Eig: Paulonis dog

Eig: A harsh & strict teacher (UC) makes students feel bod (UR). Students associate going to school (CS) with the harsh teacher. & learn to peel bad about going to school (CR).

E=q: Food aversion; Food (UC) -> gets sick, peeling auful [bad (UR) -> Food's appearance, smell; or taste (CS) -> evoke an intense dislike / pear in the person (CR).