

1. Different colons of shades nepnesent different lippes of neurothansmitten.

transmit signals across a chemical synapse, from one newson to another target newson.

Glutamic acid (Glu). Glutamate is the most abundant excitatory neurotransmitter in vertebrate nervous system.

- (gamma-amino butynic acid)

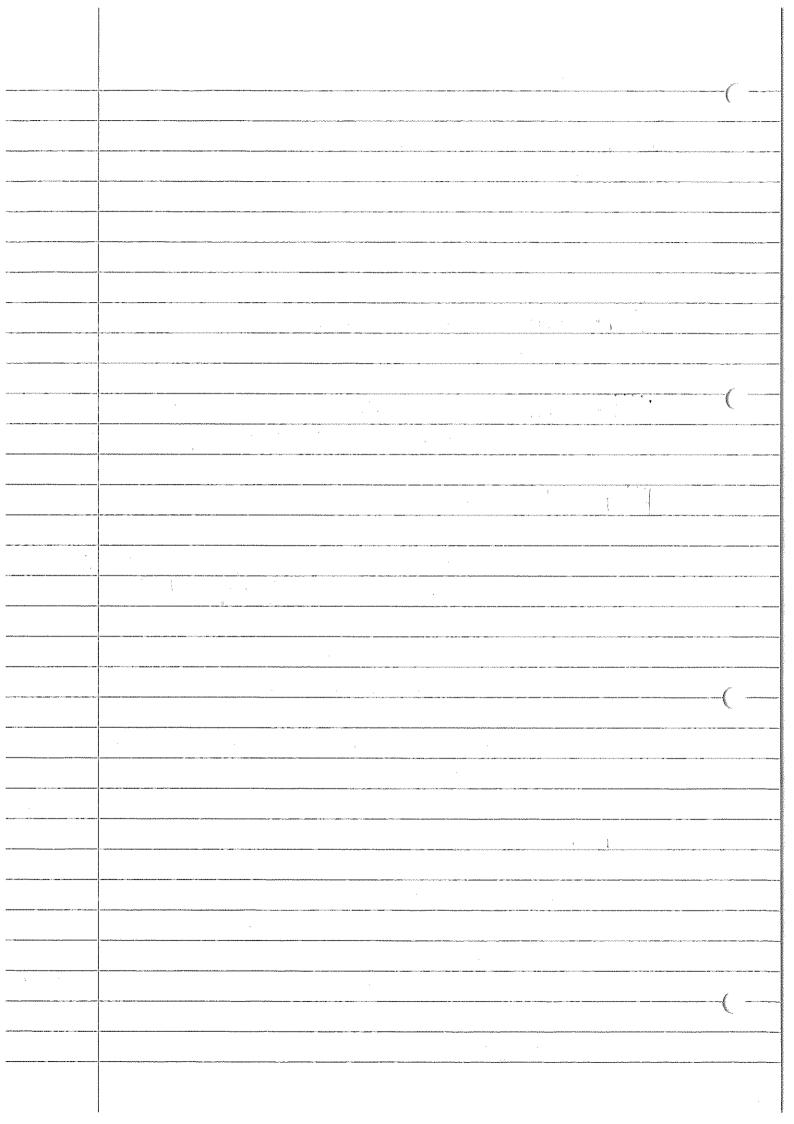
GABA. It is an inhibitory newsotransmitter which is widely distributed in the newsons of the contex.

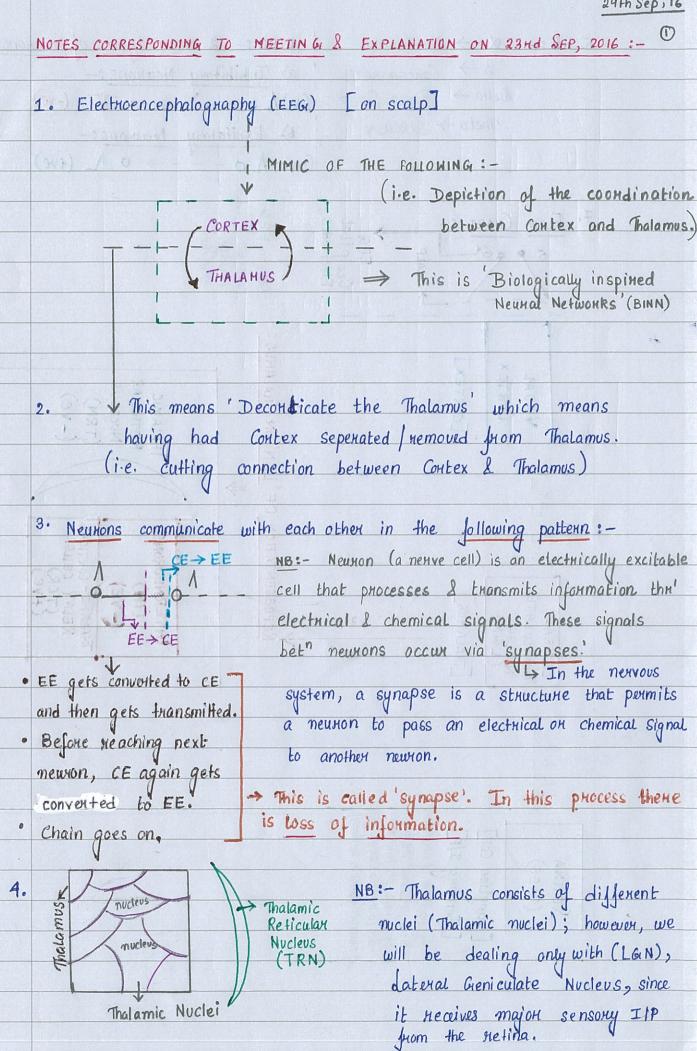
(Acetyl choline)

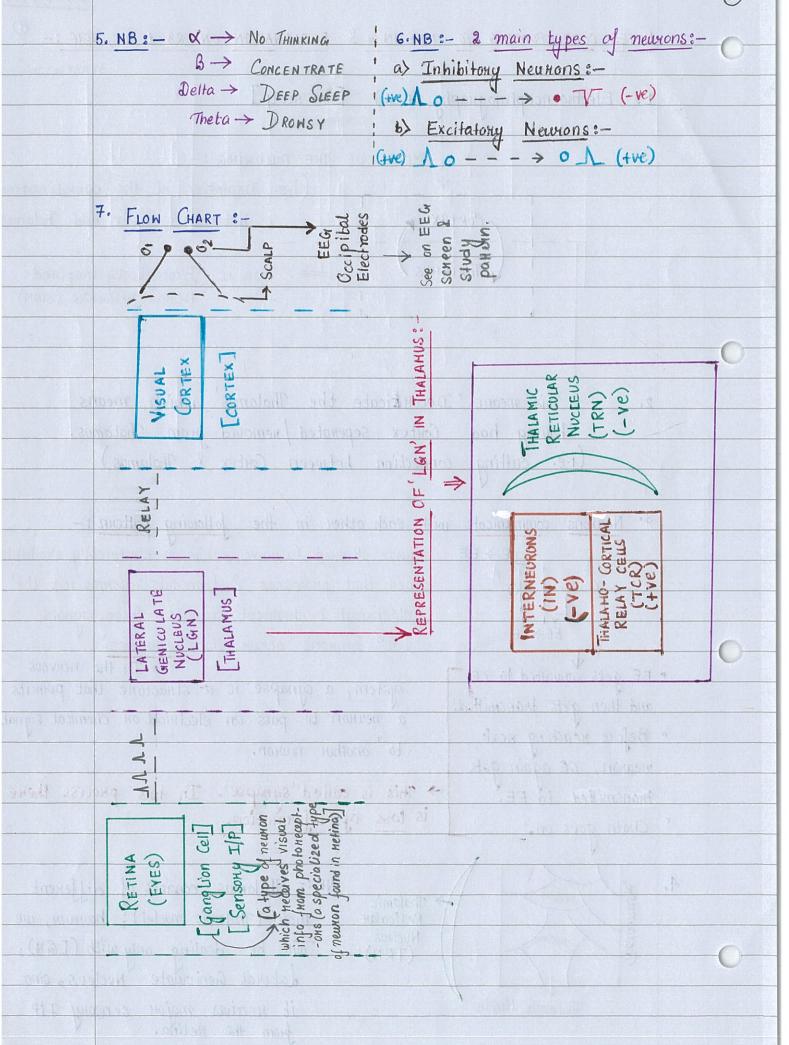
Ach. This neuro transmitter used at neuromuscular Junction. It can be either excitatory or inhibitory depending upon the type of neceptor on the adjoining cell.

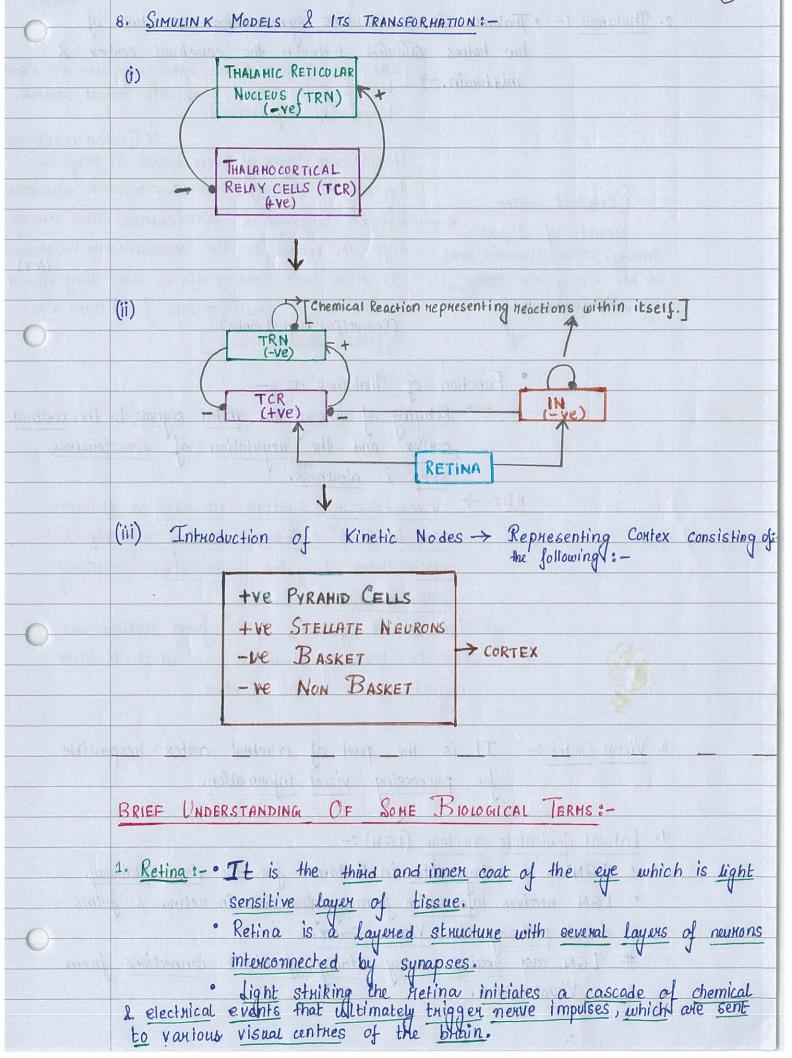
- 2. \rightarrow \rightarrow \text{hephesent} the main infarmation to be Helayed.
 - +--- нернезепть 'modulaton'. Modulatons modify
 thalamocontical негау.
- 3. Brainstem Reticular Johnstion (BRF):-
 - It is a set of interconnected nuclei Located throughout the brainstem i.e., posterior part of the brain.
 - It includes neurons localed in diverse parts of the brain;

 The neurons play a vital mole in maintaining behavioual anousal & consciousness.
 - · The functions of RF are modulatory & premoton.









IGN also receives many strong feedback connections from

Visual Contex.

5. Interneumons (IN): - · 'IN' cheate neumal cincuits enabling communication between sensony on motor newsons and CNS. The interactions between IN allow the brain to perform complex functions such as learning & decision making. 6. Thalamoconfical Relay Cells (TCR):-· TCR are fibers between the thalamus and cerebral contex. a) Relays sensony information to contex. • Functions &b) Integrates information from different sensory c) Phojects throughout contex. 7. Thalamic Reficular Nucleus (TRN):-· TRN Johns a capsule like structure around the thalamus laterally. · It is said that TRN He coives afferent IIP from the Heticular Johnalion. > then projects to other thalamic nuclei -> negulating flow of information through these to Contex. V (it is a set of interconnected nuclei localed throughout the brainstern i.e., postenion part of the brain.) · Therefore, it is the ONLY Thalamic nucleus that does not project to cerebral contex, instead it modulates & modifies information from other nuclei in thatamus \Rightarrow its function is modulatory on signals going that thalamus (& neticular nucleus.)

