

EE: BRAIN AND MIND REVISION NOTES

Reception	The CNS (from left) allows information to reach the brain surroundings or stimuli and subsequently those responses.
Sensory Receptors	
Motor Receptors	Externally imposed to stimuli (change in environment) in order to keep themselves in favourable conditions.
Apexes Cord	
Brain	The CNS is connected to the body via sensory and motor neurons which make the peripheral nervous system (the sensory input (brain) of the nervous system), the sensory messages enter the body and exit to and from the CNS.
Motor Receptors	
Effectors	

- Sensory Receptors carry sensory impulses (SCN) to the CNS.
- Motor Receptors carry motor impulses (MCN) from the CNS to effectors.

TYPE OF RECEPTION

- 1. Skin touch, pressure, pain, temperature
- 2. Hearing - smell, taste, sight, sound, pressure
- 3. Eye - sound, balance (position of head)
- 4. Mouth - taste
- 5. Nose - smell, balance in air, also helps with food

NEURONS AND SYNAPSES

- When neurons are stimulated they transmit an impulse.
- In motor neurons, the cytoplasmic filament is long and surrounded by cell membrane called axon.
- When axons are stimulated a fatty sheath, the job is to transfer the message from neighbouring cells and speeding transmission of the impulse.
- A synapse is a gap between two adjacent neurons (chemical from dendrite (D) and (MCN) from).
- Receptor molecules only bind with specific chemicals.

Transmission

1. The electrical signal or nerve impulse travels through the sensory neuron.
2. At the end of a sensory neuron chemicals or neurotransmitters are released into the synapse and then they diffuse across the synapse.
3. When these chemicals reach a motor neuron they bind with receptor molecules on the membrane of the motor neuron.
4. A nerve impulse is then initiated in the motor neuron and the signal continues to the rest.

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