

30/7/2020
THURSDAY

BIOLOGY

STD - 8
class - 15

NOTES

Skin

Stimuli which are sensed through skin.

- heat
- cold
- pressure
- touch
- pain

Receptors in the skin

- * Pain receptor
- * Touch receptor
- * cold receptor
- * pressure receptor
- * Temperature receptor

Receptors in various organisms

Organisms	Receptors	Function
Planaria	Eye spot	To detect light
House fly	Ommatidia	Vision
Snake	Tongue, Jacobson's organ	To detect smell
Shark	Lateral line, highly sensitive olfactory receptors	To understand the change in balancing

- How we can hear the sound ?

Ans) The pinna collects sound waves and directs through the auditory canal which strikes on the Tympanum. It get vibrated. The vibrations passed to the internal ear through the ear ossicles in the middle ear. The perilymphs of the internal ear gets vibrated which causes vibration in the endolymph of cochlea. The sensory cells in the cochlea are activated, impulses are formed. These impulses are carried to the brain by auditory nerve. Thus we can hear the sound.

- How we can feel the taste .?

Ans) The food particles mix with saliva enters inside the taste buds of papillae the sensory cells are activated thus we can feel the taste.

- ~~How we can~~ Explain the process of smelling.

Ans) Smell causing particles diffuse in the air and enter the nostrills and dissolve in mucus the olfactory receptors are activated, the impulses are carried to the brain. Thus we feel the smell.