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Section 35 4 the senses answers

1 The Nervous System Section 35-4: The Senses 2 The Senses Sensory Receptors: Neurons that respond to certain stimuli such as light or sound by sending impulses to other neurons and finally to the central nervous system. Sense organs: eyes (sense of vision) Ears (sense of hearing and balance) Nose (sense of smell aka Olfactory) mouth (sense of taste aka Gustatory) Skin (Sense of Touch) 3 Sensory receptors 5 general categories: Pain receptors in the whole body except the brain. Responds to tissue damage. thermoreceptors in the skin, body core and hypothalamus. Reacts to changes in temperatures mechanoreceptors found in the skin, skeletal muscles, and inner ears. Reacts to movement and pressure chemoreceptors found in nose and tongue Reacts to chemical changes photoreceptors found in the eyes Reacts to light 4 vision: Parts of the Eye Pupil Small opening where light enters size adjusted by the iris lens structure, which focuses on retina inner layer of the eye with photoreceptors Rods photoreceptors that are sensitive to light detects black and white cone photoreceptors, the color in the Fovea Fovea area on the retina, where the vision is sharpest 5 vision light kicks the eye through the pupil and concentrated at the fovea of the retina photoreceptors (rods and cones) receive the light pulses are sent to the brain where they are interpreted as visual images 6 ear has two functions hearing balance 7 hearing sound vibrations in the outer ear through the ear path vibrations that the eardrum to vibrate vibrations are absorbed by the middle ear bones, anvil and stirrup vibrations found on the cochlea in the inner ear cochlea contains receptors, hair cells that receive these vibrations pulses are sent to the brain where the vibrations are translated as sound 8 balance (balance) Found in the inner ears via the cochlea semicircular canals Monitor the position of your body in relation to the hair cells when you move your body sends pulses to the brain Determine movement and position (cerebellum) and maintain balance 9 smell and taste detects chemicals chemoreceptors for the tongue are called Buds 10 Touch and Related Senses Skin Contains receptors that respond to temperature, touch and pain Not all parts are equally sensitive To the largest density found in the fingers , Toes, and Face 11 Exit Slip 35-4 Section Review #1-5 Page 909 For #5, feel free to perform the demonstration in class.

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