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Neuron anatomy and physiology worksheet answers

1. The diagram below is of a nerve cell or neuron. i. Add the following labels to the chart. Axon; Myelin cloak; Cell body; Dendrites; Muscle fibers; ii. If you want, color in the chart as suggested below. Axon - purple; Myelin sleeve - yellow; Cell body - blue; Dendrites - green; Muscle fibers - red; iii. Now indicate the direction in which the nerve impulse is moving.

2. There are three different types of neuron or nerve cell. Match each type with its function. A. Motor neuron; B. Sensory neuron; C. Relay neuron; Kind of neuronFunction B. Sensory neuron Nerve cell that carries impulses from an emotion receptor to the brain or spinal cord. C. Relay neuron Nerve cell connecting sensory and motor neurons A. Motor neuron Nerve cell that transmits impulses from the brain or spinal cord to a muscle or gland 3. Match the descriptions in the table below with the terms in the list. Term function B. Axon 1. The long fiber that carries the nerve impulses. J. Nerve 2. A bundle of axons. A. Synapse 3. The connection between adjacent neurons. K. Neurotransmitter 4. The chemical is excreted in the gap between neurons at a synapse. G.Reflex 5. A quick automatic response to a stimulus. C. Myelin sleeve 6. Covered with fatty material that increases the passage of nerve impulses. L. Axon Terminal 7. The structure at the end of an axone that produces neurotransmitters to transmit the nerve impulse over the synapse. D. Nerve impulse 8. The high speed signals that pass along the axons of nerve cells. I. Dendrites 9. The branching filaments that perform nerve impulses against the cell. E. Sense receptor 10. The sensory organ or cells receiving stimuli from inside and outside the body. F. Reply 11. The reaction to a stimulus of a muscle or gland. H. Cell body 12.The part of the nerve cell containing the nucleus. 4. The diagram below shows a cross-section of the spinal cord. Add the following labels to the chart. Central channel; White matter; Dorsal root; Gray matter; Ventral root; Skin; Muscle; Sensory neuron; Relay neuron; Motor neuron; Pain receptors in the skin 5. a) List for the 3 different neurons involved in a reflex arc: from the stimulus to the response. Stimulus sensory neuron relay neuron motor neuron Response b) Name 3 different reflexes found in animals. Reflex 1. Blink reflex. Reflex 2. Paw pinch reflex. Reflex 3. Swallowing reflex, plus many others. 6. The diagram below shows the nervous system of a horse. Add the following labels. The brain; Spinal cord; Cranial nerves; Spinal nerves; Sciatica nerve; Nerves of the autonomic nervous system; Vagus nerve; Network of nerves to the foreleg. 7. Specify whether the following parts of the nervous system are part of the central nervous system (CNS) or the peripheral nervous system (PNS). Part of the nervous system CNS or PNS? Brain CNS Autonomic Nervous System PNS Spinal Nerves PNS Spinal Cord CNS nerves PNS 8. The diagram below shows part of the dog's brain. Add the labels to the list below, and if you want, color in the chart as suggested. Cerebellum - blue; Spinal cord - green; Medulla oblongata - orange; Hypothalamus - purple; Pituitary gland - red; Cerebral hemisphere - yellow. 9. Match the descriptions below with the terms and conditions in the list. You may need to use a few terms more than once. Term Description E. Hypothalamus 1. Controls water balance and body temperature. D.Medulla oblongata 2. Where the respiratory rate is checked. C. Cerebellum 3. Where posture, balance and voluntary muscle movements are controlled. A. Cerebral Hemisphere 4. Includes centers that control mental activity, including intelligence, memory and learning. H. Meninges 5. The tough fibrous envelope envelops the brain and spinal cord. F. Pituitary 6. The master gland of the endocrine system. Cerebral hemispheres/cortex 7. Responsible for speeding up voluntary movements. J. Cerebrospinal fluid 8. The fluid that surrounds the brain and spinal cord. G. Grey matter 9. Consists of cell bodies and nuclei. B. White matter 10. Consists of axons. Cerebral hemispheres/cortex 11. Where the feelings of vision, sound, taste etc. are interpreted. I. Ventricles 12. Spaces in the brain filled with cerebral spinal fluid. K. Sulcus 13. A fold in the cerebral cortex. L. Carotid artery 14. The artery that supplies the brain with oxygenated blood. 10. Matches the descriptions below with the parts of the nervous system in the list. You may need to use a few terms more than once. Description Part of the nervous system 1. A part of the nervous system consisting of the brain and spinal cord. B. Central nervous system 2. Part of the nervous system consisting of cranial and spinal nerves. C. Peripheral nervous system 3. The part of the peripheral nervous system that regulates the activity of the heart and smooth muscle. A. Autonomic nervous system 4. The part of the autonomic nervous system that increases the frequency of heart and respiratory, increases blood flow to the skeletal muscles and expands the pupils in the eye. E. Sympathetic nervous system 5. The part of the autonomic nervous system that increases intestinal activity and reduces the frequency of heart and respiratory. D. Parasympathetic nervous system 11. Name the nerves below using the selections in the list. Nerve Description Vestibular nerve 1. The 8th cranial nerve that carries impulses from the organs of balance and hearing to the brain. Optic nerve 2. The second cranial nerve that carries nervous impulses from the retina of the eye to the brain. Sciatica nerve 3. The largest nerve in the body serving the muscles of the leg. Olfactory nerve 4. The first cranial nerve that carries impulses from the odorous organ in the nose to the brain. Vagus nerve 5. The tenth cranial nerve that supplies the pharynx, lungs, heart, and most of the abdominal organs. Contributors and attributions Ruth Lawson (Otago Polytechnic; Dunedin, New Zealand) If you see this message, it means that we are having trouble loading external resources on our site. If you are behind a Web filter, make sure that the domains *.kastatic.org and *.kasandbox.org are revoked. Unblocked.

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