



YEAR 9 SCIENCE 2021
Control & Regulation Topic Test

Name: _____ Score: _____ / 50 Grade: _____

Section A: Multiple Choice Questions (circle the most correct response) 28 marks

<p>1. The structures that detect changes and receive stimuli are called:</p> <p>A. effectors B. receptors C. control centres D. organs</p>	<p>6. The part of the nervous system that is responsible for body processes such as heart rate and breathing is the:</p> <p>A. autonomic nervous system B. central nervous system C. somatic nervous system D. neurotransmitter system</p>
<p>2. The _____ in the back of the eye detect light and transform it into a nerve signal.</p> <p>A. nerves B. iris C. photoreceptors D. cornea</p>	<p>7. Motor neurons:</p> <p>A. are fast and sensory neurons are slow. B. carry messages to the CNS and to sensory neurons to the PNS. C. carry messages from the CNS to effector organs such as muscles. D. carry messages to the CNS from the effectors and sensory neurons.</p>
<p>3. The basic unit of the nervous system is the:</p> <p>A. neuron B. nerve C. brain D. spinal cord</p>	<p>8. The _____ lobe of the brain that processes sounds and smells.</p> <p>A. frontal B. parietal C. occipital D. temporal</p>
<p>4. Which of the following statements about the neuron is correct?</p> <p>A. Dendrites take the nerve impulse away from the cell body and axons take the nerve impulse to the cell body. B. Dendrites increase the speed of a nerve impulse and the cell body decreases the speed of a nerve impulse. C. Dendrites decrease the speed of a nerve impulse and the cell body increases the speed of a nerve impulse. D. Dendrites take the nerve impulse to the cell body and axons take the nerve impulse away from the cell body.</p>	<p>9. Identify the part of the neuron labelled 1 in the diagram.</p>  <p>A. axon B. dendrite C. synaptic terminal D. cell body</p>
<p>5. You touch something very hot and burn your hand. The part of the nervous system that immediately sends the message to your muscles so that you move your hand is:</p> <p>A. the spinal cord B. the cerebrum C. the brain D. an effector</p>	<p>10. The hormone that prepares the body for the 'fight or flight' response is:</p> <p>A. thyroid-stimulating hormone B. calcitonin C. adrenaline D. melatonin</p>

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David Kirk



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Table of Contents Year 9 Test Paper Science

1. Understanding the eBook Year 9 Test Paper Science
 - The Rise of Digital Reading Year 9 Test Paper Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Year 9 Test Paper Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Year 9 Test Paper Science
 - User-Friendly Interface

4. Exploring eBook Recommendations from Year 9 Test Paper Science
 - Personalized Recommendations
 - Year 9 Test Paper Science User Reviews and Ratings
 - Year 9 Test Paper Science and Bestseller Lists
5. Accessing Year 9 Test Paper Science Free and Paid eBooks
 - Year 9 Test Paper Science Public Domain eBooks
 - Year 9 Test Paper Science eBook Subscription Services
 - Year 9 Test Paper Science Budget-Friendly Options
6. Navigating Year 9 Test Paper Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Year 9 Test Paper Science Compatibility with Devices
 - Year 9 Test Paper Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Year 9 Test Paper Science
 - Highlighting and Note-Taking Year 9 Test Paper Science
 - Interactive Elements Year 9 Test Paper Science
8. Staying Engaged with Year 9 Test Paper Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Year 9 Test Paper Science
9. Balancing eBooks and Physical Books Year 9 Test Paper Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Year 9 Test Paper Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Year 9 Test Paper Science
 - Setting Reading Goals Year 9 Test Paper Science
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Year 9 Test Paper Science
 - Fact-Checking eBook Content of Year 9 Test Paper Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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