

Biology Notes Paper 2

B10 - THE HUMAN NERVOUS SYSTEM

Includes Principles of homeostasis, the structure and function of the nervous system, reflex actions, the brain, the eye, common problems of the eye

Principles of homeostasis

- Homeostasis is the regulation of conditions in the body in order to maintain optimum function
- The nervous system enables humans to react to their surroundings and to coordinate their behaviour
- In the body, homeostasis controls blood glucose concentration, body temperatures and water levels
- Stimulus → Receptors → Coordination Centres → Effectors
- A stimulus is a change in your environment which you need to react to (temperature, moisture, humidity)
- A receptor is a cell that can detect changes in the environment
- Coordination centres (brain, spinal cord, pancreas) receive and process the information from the receptors
- Effectors (Muscles and glands) these make the responses happen to change body conditions

Structure and function of the nervous system

- The nervous system uses electrical impulses to enable you to react quickly to your surroundings
- Stimulus → Receptor → Sensory Neurone → Relay Neurone → Motor neurone → effector → response
- Once a receptor detects a stimulus, the information is passed as an electrical impulse that passes along neurones
- Sensory neurones carry these impulse travels along the neurone until it reaches the CNS (Central Nervous System)
- The CNS is made of the brain and spinal cord
- The PNS (peripheral nervous system) includes all the nerves outside the CNS and are carried by motor neurones
- They involve involuntary responses such as heartbeat and breathing rate
- Axon is the neurone fibre that carries the impulse
- Dendrites are the ends of the neurone that receive or pass on a message
- Synapse is the gap when two neurones meet.
- Reflexes don't include the conscious parts of the brain

The brain

- The brain is made up of billions of interconnected neurones that control complex behaviour
- The cerebral cortex controls consciousness, memory, intelligence and language
- The Cerebellum coordinates with muscular activities and balance
- The hypothalamus controls body temperature
- The medulla controls unconscious activities such as heart rate and breathing rate

Biology Paper Notes

AW Rasmussen



Biology Paper Notes:

Biology Notes Printable Craze,2019-07-23 Biology Notebook for Students This uniquely designed notebook is perfect for the biology major The notebook contains graph paper on each page with a 0 2x0 2 square This graph paper helps the student to create perfect structures when drawing chemical compositions for class Notebook Features 8x10 size on white paper 110 pages Paperback Notebook Fits in any backpack or purse Suitable For Biology or Biochemistry Major Students Birthday Present Christmas Stocking Stuffer Back to School Supplies High School Students Please be sure to click on our author name under the book title to check out our other listings Sea Grant Publications Index ,1975 A Guide to the Breeding Habits and Immature Stages of Diptera Cyclorrhapha P. Ferrar,2024-01-15 The print edition is available as a set of two volumes 9789004085398 **The Runes of Evolution** Simon Conway Morris,2015-06-30 How did human beings acquire imaginations that can conjure up untrue possibilities How did the Universe become self aware In The Runes of Evolution Simon Conway Morris revitalizes the study of evolution from the perspective of convergence providing us with compelling new evidence to support the mounting scientific view that the history of life is far more predictable than once thought A leading evolutionary biologist at the University of Cambridge Conway Morris came into international prominence for his work on the Cambrian explosion especially fossils of the Burgess Shale and evolutionary convergence which is the process whereby organisms not closely related not monophyletic independently evolve similar traits as a result of having to adapt to similar environments or ecological niches In The Runes of Evolution he illustrates how the ubiquity of convergence hints at an underlying framework whereby many outcomes not least brains and intelligence are virtually guaranteed on any Earth like planet Conway Morris also emphasizes how much of the complexity of advanced biological systems is inherent in microbial forms By casting a wider net The Runes of Evolution explores many neglected evolutionary questions Some are remarkably general Why for example are convergences such as parasitism carnivory and nitrogen fixation in plants concentrated in particular taxonomic hot spots Why do certain groups have a particular propensity to evolve toward particular states Some questions lead to unexpected evolutionary insights If bees sleep as they do do they dream Why is that insect copulating with an orchid Why have sponges evolved a system of fiber optics What do mantis shrimps and submarines have in common If dinosaurs had not gone extinct what would have happened next Will a saber toothed cat ever re evolve Cona Morris observes Even amongst the mammals let alone the entire tree of life humans represent one minute twig of a vast and largely fossilized arborescence Every living species is a linear descendant of an immense string of now vanished ancestors but evolution itself is the very reverse of linear Rather it is endlessly exploratory probing the vast spaces of biological hyperspace Indeed this book is a celebration of how our world is and was populated by a riot of forms a coruscating tapestry of life The Runes of Evolution is the most definitive synthesis of evolutionary convergence to be published to date *Technical Note* ,1921 **Biology Notes** On Target Publishing,2019-04-13 Biology Notes When trying

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Biology Paper Notes Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Biology Paper Notes**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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