

GCSE BIOLOGY

study notes

MOVEMENT OF SUBSTANCES INTO AND OUT OF CELLS

DIFFUSION

Diffusion = net movement of particles from high to low concentration
Diffusion = passive, no energy required, result of random movement
Concentration gradient = difference in concentration

Increasing diffusion rate = steeper gradient, larger rate cells, small size

OSMOSIS

Osmosis = the diffusion of water molecules across partially permeable membrane from high to low concentration (water)

Isotonic = same water concentration in solution on both sides
Hypertonic = hypertonic solution has higher water concentration
Hypotonic = hypotonic solution has lower water concentration
Rugel = high internal water pressure, pushes against cell wall of plant cells
Turgid = plant cell when a water-filled vacuole is the central vacuole
Plasmolysed = when cells lose water through osmosis

ACTIVE TRANSPORT

Active transport = when particles move against a concentration gradient
Energy enters in the cell membrane, gets up particles and moves them
The cell membrane against concentration gradient using ATP

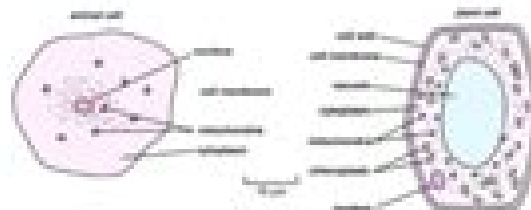
FACTOALS

Diffusion

Not living system

Diffusion occurs in all living and non-living systems

CELL ORGANELLES



Organelles = subcellular structures in cells

Cytoplasm

Where chemical reactions take place

Living, jelly-like material, supports organelles

Contains enzymes, water and solutes

Nucleus

Contains genetic information of a cell

Enclosed in a nuclear membrane, contains chromosomes

Control the activity in cells by determining the proteins produced

Level 9 achieved!

THE ORGANISM IN THE ENVIRONMENT

Organisms interact with their physical, chemical and biological environment
Study of organisms and the environment interacting as a system
A part of an ecosystem

Organisms of the same species, living in the same area at the same time
Populations of different species living and interacting in the same area
In which organisms live, a combination of biotic and abiotic factors

POPULATION

Group of individuals that can affect the size and distribution of population

Can interact with other populations

Can

Can

Can

Can affect the size and distribution of population

Can

Can feed, waste and interact

Can interact with other organisms, distribution and abundance
Can interact with other

Can interact with other

Can interact with other, and control the number of organisms

Can interact with other, and control the number of organisms

Igcse Biology Study Notes

Siddappa N.Byrareddy



Igcse Biology Study Notes:

Igcse Biology Study Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Igcse Biology Study Notes : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Igcse Biology Study Notes : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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