# iGCSE Biology Paper 1 Specification-Questions and Answers Graded A+

LEVELS OF ORGANISATION - ANSWER-Organelles, Cells, Tissues, Organs, Systems

CELL STRUCTURES - ANSWER-Nucleus, Cytoplasm, Cell membrane, Cell wall, Chloroplast, Vacuole

STRUCTURE OF CARBOHYDRATES, PROTEINS & LIPIDS - ANSWER-LARGE , molecules made up from smaller basic units

STARCH & GLYCOGEN - ANSWER-From simple sugar

PROTEIN - ANSWER-From amino acids

LIPIDS - ANSWER-From fatty acids and glycerol

ROLE OF ENZYMES IN METABOLIC REACTIONS - ANSWER-Enzymes lower the activation energy of a reaction- making it faster (BIOLOGICAL CATALYST)

HOW FUNCTIONING ENZYMES ARE AFFECTED - ANSWER-By changes in TEMPERATURE and changes in PH

DIFFUSION - ANSWER-The net overall MOVEMENT of particles of a GAS or SOLUTE from an area of HIGH CONCENTRATION to an area of lower concentration DOWN the concentration gradient

OSMOSIS - ANSWER-When WATER moves across a PARTIALLY PERMEABLE MEMBRANE, from an area of HIGH CONCENTRATION to an area of lower concentration DOWN the concentration gradient

ACTIVE TRANSPORT - ANSWER-The movement of substances AGAINST a concentration gradient/across a cell membrane, using ENERGY

MOVEMENT OF SUBSTANCES INTO AND OUT OF CELLS - ANSWER-Can be by diffusion, osmosis and active transport

PHOTOSYNTHESIS EQUATION - ANSWER-Carbon dioxide + water > glucose + oxygen 6CO2 + 6H2O = C6H12O6 + 6O2

MINERAL IONS FOR GROWTH - ANSWER-MAGNESIUM ions are needed for CHLRORPHYLL; NITRATE ions are needed for AMINO ACIDS

RESPIRATION PURPOSE - ANSWER-Respiration is a reaction that occurs in living things to create energy. It breaks down glucose to release energy

AEROBIC RESPIRATION - ANSWER-The process by which FOOD molecules are BROKEN DOWN using OXYGEN to release ENERGY for the cells

ANAEROBIC RESPIRATION - ANSWER-Cellular respiration in the ABSENCE of OXYGEN

# **Igcse Biology Paper 1 2013**

**Rachel Sandford** 

**Igcse Biology Paper 1 2013:** 

Igcse Biology Paper 1 2013: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Igcse Biology Paper 1 2013: Colleen Hoovers "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 succeed. Igcse Biology Paper 1 2013: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Igcse Biology Paper 1 2013: 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 spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating 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 gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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