

B15.1 The history of genetics

Question number	Answer	Marks	Guidance
1	He found that characteristics were inherited in clear and predictable patterns, that some characteristics were dominant over others, and that they never mixed together.	1 1 1	
2 a	People couldn't see units of inheritance, so no proof of their existence.	1 1	
2 b	People were unused to studying careful records of results. Microscopes enabled people to see chromosomes, cell nucleus and observe chromosome movement in meiosis. This proved mechanism for Mendel's principles of inheritance, promoting their acceptance.	1 1 1 1	
3	Watkins and Franklin examined structure of DNA using X-rays. Watson and Crick worked on 3-D DNA model to explain how it works. Watson and Crick ultimately developed double helix structure for DNA molecule based on Franklin's X-ray results.	1 1 1 1 1	

B15.2 Theories of evolution

Question number	Answer	Marks	Guidance
1 a	development of all species of living and extinct organisms from simple life forms developed more than 3 billion years ago, through a process of natural selection.	1 1 1	
1 b	Process by which evolution takes place. Every population contains great variation. More offspring are produced than can survive. Only animals and plants best adapted to environment (the 'fittest') will survive to breed and pass on their characteristics.	1 1 1 1 1	
2	Points may include: - helped pave way for Darwin's ideas, - stimulated Darwin's thinking, - first theory to challenge creation of world by God, - instigated debate on origins of life, - flaws in Lamarck's theory made Darwin's theory more plausible.	5	Any other thoughtful point.
3 a	Different types of same bird lived in slightly different areas, making Darwin question how they came about.	1 1	
3 b	Species varied from island to island, making Darwin wonder how differences arose.	1 1	
3 c	Gave Darwin time to collect many specimens then make observations and consider theories.	1 1	
3 d	Gave Darwin time to review specimens, drawings, and observations before developing theories and ideas and gathering evidence to support them.	1 1 1	

Aqa A2 Biology Chapter 15 Answers

SJ Ball



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