

Paper	Topic	Q No.	Question
Biol 2	B10: The human nervous system	B10.1	What is the role of the pancreas in homeostasis?
Biol 2	B10: The human nervous system	B10.2	What do muscles do?
Biol 2	B10: The human nervous system	B10.3	Where is the relay neuron?
Biol 2	B10: The human nervous system	B10.4	Where are hormones made?
Biol 2	B10: The human nervous system	B10.5	What is an enzyme?
Biol 2	B10: The human nervous system	B10.6	What 3 things does homeostasis control in the body?
Biol 2	B10: The human nervous system	B10.7	What are the 7 steps of the reflex arc?
Biol 2	B10: The human nervous system	B10.8	What do we call the cells that detect stimuli?
Biol 2	B10: The human nervous system	B10.9	Name 2 reflex actions that our bodies do
Biol 2	B10: The human nervous system	B10.10	What does the motor neuron do?
Biol 2	B10: The human nervous system	B10.11	What are the 2 parts of the central nervous system (CNS)?
Biol 2	B10: The human nervous system	B10.12	When an enzyme denatures it stops working. How can you denature an enzyme?
Biol 2	B10: The human nervous system	B10.13	What is a catalyst?
Biol 2	B10: The human nervous system	B10.14	What is homeostasis?
Biol 2	B10: The human nervous system	B10.15	What are hormones?
Biol 2	B10: The human nervous system	B10.16	What is a neuron?
Biol 2	B10: The human nervous system	B10.17	What is a reflex action?
Biol 2	B10: The human nervous system	B10.18	What does the sensory neuron do?
Biol 2	B10: The human nervous system	B10.19	Name the 3 coordination centres in the human body?
Biol 2	B10: The human nervous system	B10.20	What happens at a synapse?
Biol 2	B10: The human nervous system	B10.21	Name the 2 types of effectors within the human body?
Biol 2	B10: The human nervous system	B10.22	Where do you find a synapse?
Biol 2	B10: The human nervous system	B10.23	Describe the lock and key theory of catalysts
Biol 2	B10: The human nervous system	B10.24	Name one type of receptor
Biol 2	B10: The human nervous system	B10.25	What are the 6 senses that the human body can detect?
Biol 2	B11: Hormonal coordination	B11.1	Name 6 methods of contraception
Biol 2	B11: Hormonal coordination	B11.2	What is ovulation?
Biol 2	B11: Hormonal coordination	B11.3	What is IVF?
Biol 2	B11: Hormonal coordination	B11.4	How can you control Type 1 diabetes?
Biol 2	B11: Hormonal coordination	B11.5	What are hormones?
Biol 2	B11: Hormonal coordination	B11.6	[HT] What hormone does the pancreas release if the blood sugar concentration is too low?
Biol 2	B11: Hormonal coordination	B11.7	Where is the main female reproductive hormone produced?
Biol 2	B11: Hormonal coordination	B11.8	What does insulin in the bloodstream cause?
Biol 2	B11: Hormonal coordination	B11.9	What is the name of the main female reproductive hormone?
Biol 2	B11: Hormonal coordination	B11.10	Which hormones can be taken during fertility treatment to stimulate egg development and release?
Biol 2	B11: Hormonal coordination	B11.11	Where is the thyroxin hormone produced?
Biol 2	B11: Hormonal coordination	B11.12	What is the role of the pancreas in homeostasis?
Biol 2	B11: Hormonal coordination	B11.13	What do we call the system that contains glands and secretes hormones into the bloodstream?
Biol 2	B11: Hormonal coordination	B11.14	What hormone does the pancreas release if the blood sugar concentration is too high?
Biol 2	B11: Hormonal coordination	B11.15	What are the effects of Type 1 diabetes?
Biol 2	B11: Hormonal coordination	B11.16	How can you control Type 2 diabetes?
Biol 2	B11: Hormonal coordination	B11.17	What is the thyroxin hormone used for?
Biol 2	B11: Hormonal coordination	B11.18	Name the 4 hormones released during the menstrual cycle
Biol 2	B11: Hormonal coordination	B11.19	[HT] What does glucagon in the bloodstream cause?
Biol 2	B11: Hormonal coordination	B11.20	Where is the main male reproductive hormone produced?
Biol 2	B11: Hormonal coordination	B11.21	What hormone is produced by the adrenal gland to increase heart rate?
Biol 2	B11: Hormonal coordination	B11.22	What is the name of the main male reproductive hormone?
Biol 2	B11: Hormonal coordination	B11.23	Which gland is known as the 'master gland' that secretes hormones that act on other glands?
Biol 2	B11: Hormonal coordination	B11.24	How long does a single menstrual cycle take for a mature human female?
Biol 2	B11: Hormonal coordination	B11.25	What are the effects of Type 2 diabetes?
Biol 2	B12: Reproduction	B12.1	What is the name for the process of male and female gametes fusing together?
Biol 2	B12: Reproduction	B12.2	How can you tell that brown hair is a dominant phenotype over ginger hair?
Biol 2	B12: Reproduction	B12.3	What is a homozygous genotype, give an example?
Biol 2	B12: Reproduction	B12.4	What is the name of the chemical that makes chromosomes?
Biol 2	B12: Reproduction	B12.5	Which type of reproduction uses mitosis?
Biol 2	B12: Reproduction	B12.6	How many parents are needed in sexual reproduction?
Biol 2	B12: Reproduction	B12.7	What is an allele and give an example of a human allele?
Biol 2	B12: Reproduction	B12.8	Name the 2 animal gametes and 2 plant gametes
Biol 2	B12: Reproduction	B12.9	List 3 ways we might use the human genome in the future
Biol 2	B12: Reproduction	B12.10	What are the two gender genotypes?
Biol 2	B12: Reproduction	B12.11	What carries all the genetic information on how to make an organism?
Biol 2	B12: Reproduction	B12.12	Which type of reproduction produces offspring with variation between them?
Biol 2	B12: Reproduction	B12.13	Which type of reproduction produces offspring who are clones?
Biol 2	B12: Reproduction	B12.14	Which type of reproduction fuses genetic information from male and female gametes?
Biol 2	B12: Reproduction	B12.15	What is a clone?
Biol 2	B12: Reproduction	B12.16	How many chromosomes does a normal human cell have?
Biol 2	B12: Reproduction	B12.17	What is the genome of a human being?
Biol 2	B12: Reproduction	B12.18	What is a heterozygous genotype, give an example?
Biol 2	B12: Reproduction	B12.19	How many chromosomes does a gamete have compared to a normal cell?
Biol 2	B12: Reproduction	B12.20	What the genotype for someone with blue (b) eyes if their parents had brown eyes (B)?
Biol 2	B12: Reproduction	B12.21	What are the 4 stages of meiosis?
Biol 2	B12: Reproduction	B12.22	What the phenotype for someone with blue (b) eyes if their parents had brown eyes (B)?
Biol 2	B12: Reproduction	B12.23	How many parents are needed in asexual reproduction?
Biol 2	B12: Reproduction	B12.24	List 2 inherited disorders and say if each is dominant or recessive
Biol 2	B12: Reproduction	B12.25	What is the name of a small piece of DNA in a chromosome?
Biol 2	B13: Variation and evolution	B13.1	What is the genome of a human being?
Biol 2	B13: Variation and evolution	B13.2	Who was the person who developed the theory of evolution through natural selection?
Biol 2	B13: Variation and evolution	B13.3	[HT] List the 4 steps involved in genetic engineering
Biol 2	B13: Variation and evolution	B13.4	What do we call the process of choosing parents with desired characteristics so that their offspring will have similar characteristics?
Biol 2	B13: Variation and evolution	B13.5	List 2 inherited characteristics of humans

Biol 2	B13: Variation and evolution	B13.6	What is responsible for all different phenotypes between organisms?
Biol 2	B13: Variation and evolution	B13.7	Give 2 possible benefits of GM crops
Biol 2	B13: Variation and evolution	B13.8	What do we call the process where inherited characteristics change over time due to natural selection?
Biol 2	B13: Variation and evolution	B13.9	Give 1 possible use of genetic engineering in medicine.
Biol 2	B13: Variation and evolution	B13.10	[HT] What is the role of the enzyme in the process of genetic engineering?
Biol 2	B13: Variation and evolution	B13.11	Give 1 problem with inbreeding caused by selective breeding?
Biol 2	B13: Variation and evolution	B13.12	What do we call a slight change in DNA code?
Biol 2	B13: Variation and evolution	B13.13	What is variation in a species?
Biol 2	B13: Variation and evolution	B13.14	What the phenotype for someone with blue (b) eyes if their parents had brown eyes (B)?
Biol 2	B13: Variation and evolution	B13.15	What is the difference between two species?
Biol 2	B13: Variation and evolution	B13.16	How quickly can we use selective breeding to produce plants or animals with desired characteristics?
Biol 2	B13: Variation and evolution	B13.17	What do we call the process of modifying the genome of one organism by adding a gene from another?
Biol 2	B13: Variation and evolution	B13.18	List 2 plant characteristics which we have promoted through selective breeding?
Biol 2	B13: Variation and evolution	B13.19	What does Darwin believe we all evolved from over 3 billion years ago?
Biol 2	B13: Variation and evolution	B13.20	Give 2 concerns of people to growing and using GM crops
Biol 2	B13: Variation and evolution	B13.21	What are the 4 stages in Darwin's theory of evolution through natural selection?
Biol 2	B13: Variation and evolution	B13.22	What does GM stand for?
Biol 2	B13: Variation and evolution	B13.23	List 2 environmental characteristics of humans
Biol 2	B13: Variation and evolution	B13.24	[HT] Why are genes transferred into a cell at early stages of development during the process of genetic engineering?
Biol 2	B13: Variation and evolution	B13.25	List 2 animal characteristics which we have promoted through selective breeding?
Biol 2	B14: Genetics and evolution	B14.1	List 4 factors that can cause extinction
Biol 2	B14: Genetics and evolution	B14.2	What can new predators, new diseases, new competition for food and changes in environment all lead to?
Biol 2	B14: Genetics and evolution	B14.3	Why is it a problem that some bacteria are resistant to antibiotics?
Biol 2	B14: Genetics and evolution	B14.4	What are resistant bacteria, resistant to?
Biol 2	B14: Genetics and evolution	B14.5	What are the 4 stages in Darwin's theory of evolution through natural selection?
Biol 2	B14: Genetics and evolution	B14.6	How are fossils formed?
Biol 2	B14: Genetics and evolution	B14.7	Which organisms are made of eukaryotic cells?
Biol 2	B14: Genetics and evolution	B14.8	Why are there so few fossils?
Biol 2	B14: Genetics and evolution	B14.9	List the 3 groups developed by Carl Woese in the Three Domain System
Biol 2	B14: Genetics and evolution	B14.10	What theory do fossil records, antibiotic resistance in bacteria and an understanding of genetics all support?
Biol 2	B14: Genetics and evolution	B14.11	What is the name of the process of putting living things into similar groups?
Biol 2	B14: Genetics and evolution	B14.12	What are the 3 sources of evidence for evolution?
Biol 2	B14: Genetics and evolution	B14.13	What does Darwin believe we all evolved from over 3 billion years ago?
Biol 2	B14: Genetics and evolution	B14.14	What is a fossil?
Biol 2	B14: Genetics and evolution	B14.15	Why can bacteria evolve so much more rapidly than humans?
Biol 2	B14: Genetics and evolution	B14.16	What 2 problems are there in developing new antibiotics?
Biol 2	B14: Genetics and evolution	B14.17	List the 7 categories in the correct order, of in the Linnaean system
Biol 2	B14: Genetics and evolution	B14.18	What is this mnemonic used for: King Phillip Cut Open Five Green Snakes?
Biol 2	B14: Genetics and evolution	B14.19	What is the term given to a species when there are no more surviving individuals of that species remaining?
Biol 2	B14: Genetics and evolution	B14.20	What is MRSA?
Biol 2	B14: Genetics and evolution	B14.21	What is the name for the diagram used to show how we think organisms are related?
Biol 2	B14: Genetics and evolution	B14.22	Is Darwin's theory of evolution widely accepted as being true now?
Biol 2	B14: Genetics and evolution	B14.23	Who was the person who developed the theory of evolution through natural selection?
Biol 2	B14: Genetics and evolution	B14.24	Sketch a simple evolutionary tree containing humans, gorillas and salmon
Biol 2	B14: Genetics and evolution	B14.25	Name 1 resistant bacteria
Biol 2	B15: Adaptions, interdependence and competition	B15.1	In which process do plants use sunlight?
Biol 2	B15: Adaptions, interdependence and competition	B15.2	List 2 common plant adaptations and what they are used for
Biol 2	B15: Adaptions, interdependence and competition	B15.3	What is a quadrat?
Biol 2	B15: Adaptions, interdependence and competition	B15.4	If a plant is aquatic, what does that mean?
Biol 2	B15: Adaptions, interdependence and competition	B15.5	What do we call a system that contains all living organisms and non-living factors in an area?
Biol 2	B15: Adaptions, interdependence and competition	B15.6	What 3 things to animals compete for?
Biol 2	B15: Adaptions, interdependence and competition	B15.7	List 2 behavioural adaptations of animals
Biol 2	B15: Adaptions, interdependence and competition	B15.8	What is the term given when one species relies on another for food, shelter, pollination or seed dispersal?
Biol 2	B15: Adaptions, interdependence and competition	B15.9	List 3 functional adaptations of animals?
Biol 2	B15: Adaptions, interdependence and competition	B15.10	What do we use a quadrat for?
Biol 2	B15: Adaptions, interdependence and competition	B15.11	What do we call features that make an organism better suited to its environment?
Biol 2	B15: Adaptions, interdependence and competition	B15.12	What does abiotic refer to?
Biol 2	B15: Adaptions, interdependence and competition	B15.13	What do we call a group of interdependent plants or animals living together?
Biol 2	B15: Adaptions, interdependence and competition	B15.14	What 3 things do plants compete for?
Biol 2	B15: Adaptions, interdependence and competition	B15.15	List 7 abiotic factors that might affect a community
Biol 2	B15: Adaptions, interdependence and competition	B15.16	List 4 biotic factors that might affect a community

Biol 2	B15: Adaptions, interdependence and competition	B15.17	List 3 structural adaptations of plants or animals
Biol 2	B15: Adaptions, interdependence and competition	B15.18	List 2 common animal adaptations and what they are used for
Biol 2	B15: Adaptions, interdependence and competition	B15.19	What happens to interdependent species if one species is affected?
Biol 2	B15: Adaptions, interdependence and competition	B15.20	Give 1 example of an extremophile
Biol 2	B15: Adaptions, interdependence and competition	B15.21	What is the source of all energy in all food webs?
Biol 2	B15: Adaptions, interdependence and competition	B15.22	What is the name for organisms that live in extreme environments?
Biol 2	B15: Adaptions, interdependence and competition	B15.23	What does biotic refer to?
Biol 2	B15: Adaptions, interdependence and competition	B15.24	What is a line transect?
Biol 2	B15: Adaptions, interdependence and competition	B15.25	How would you make a food chain from a food web?
Biol 2	B16: Organising an ecosystem	B16.1	Sketch a typical predator prey population cycle graph
Biol 2	B16: Organising an ecosystem	B16.2	What is the word equation for photosynthesis?
Biol 2	B16: Organising an ecosystem	B16.3	Sketch and label the water cycle
Biol 2	B16: Organising an ecosystem	B16.4	What two things can cause predator numbers to rise?
Biol 2	B16: Organising an ecosystem	B16.5	Which organism always comes first in the food chain?
Biol 2	B16: Organising an ecosystem	B16.6	What are secondary consumers?
Biol 2	B16: Organising an ecosystem	B16.7	What do we call the microorganisms that feed on dead organisms and waste?
Biol 2	B16: Organising an ecosystem	B16.8	What do we call organisms that eat secondary consumers?
Biol 2	B16: Organising an ecosystem	B16.9	If there is an abundance of something, what does that mean?
Biol 2	B16: Organising an ecosystem	B16.10	What is the relationship between the equations for photosynthesis and respiration?
Biol 2	B16: Organising an ecosystem	B16.11	Write the 2 missing steps explaining how lots of prey can eventually lead to less predators after a period of time
Biol 2	B16: Organising an ecosystem	B16.12	What are producers?
Biol 2	B16: Organising an ecosystem	B16.13	Draw a simple food chain
Biol 2	B16: Organising an ecosystem	B16.14	What are primary consumers?
Biol 2	B16: Organising an ecosystem	B16.15	What two things can cause prey numbers to rise?
Biol 2	B16: Organising an ecosystem	B16.16	What two things can cause prey numbers to fall?
Biol 2	B16: Organising an ecosystem	B16.17	What does distribution of organisms mean?
Biol 2	B16: Organising an ecosystem	B16.18	What is the word equation for aerobic respiration?
Biol 2	B16: Organising an ecosystem	B16.19	What do we call consumers who eaten by other consumers?
Biol 2	B16: Organising an ecosystem	B16.20	Sketch and label the carbon cycle
Biol 2	B16: Organising an ecosystem	B16.21	What are predators?
Biol 2	B16: Organising an ecosystem	B16.22	What do the microorganisms that feed on dead organisms and waste release into the atmosphere and soil?
Biol 2	B16: Organising an ecosystem	B16.23	What do we call the amount of biological mass in an organism?
Biol 2	B16: Organising an ecosystem	B16.24	What is the word equation for burning a hydrocarbon?
Biol 2	B16: Organising an ecosystem	B16.25	What two things can cause predator numbers to fall?
Biol 2	B17: Biodiversity and ecosystems	B17.1	What do we use peat from peat bogs for?
Biol 2	B17: Biodiversity and ecosystems	B17.2	Have we always tried to reduce our impact on the biodiversity of our planet?
Biol 2	B17: Biodiversity and ecosystems	B17.3	How does introducing breeding programmes for endangered species affect biodiversity?
Biol 2	B17: Biodiversity and ecosystems	B17.4	What do we call the large scale removal of forests?
Biol 2	B17: Biodiversity and ecosystems	B17.5	What do we call a system that contains all living organisms and non-living factors in an area?
Biol 2	B17: Biodiversity and ecosystems	B17.6	List 4 human actions that have reduced biodiversity
Biol 2	B17: Biodiversity and ecosystems	B17.7	What global phenomena do we believe will lead to temperatures, weather and seasons changing?
Biol 2	B17: Biodiversity and ecosystems	B17.8	How can pollution from waste affect biodiversity?
Biol 2	B17: Biodiversity and ecosystems	B17.9	What global phenomena do we believe will lead to reduced biodiversity as organisms become extinct?
Biol 2	B17: Biodiversity and ecosystems	B17.10	How does protecting field margins, hedgerows and rare habitats affect biodiversity?
Biol 2	B17: Biodiversity and ecosystems	B17.11	List 4 biological impacts of global warming
Biol 2	B17: Biodiversity and ecosystems	B17.12	What does abiotic refer to?
Biol 2	B17: Biodiversity and ecosystems	B17.13	What is the term describing the variety of different living species in a particular ecosystem?
Biol 2	B17: Biodiversity and ecosystems	B17.14	Why is high biodiversity important for the stability of ecosystems?
Biol 2	B17: Biodiversity and ecosystems	B17.15	What gas is released if peat is burnt?
Biol 2	B17: Biodiversity and ecosystems	B17.16	Name 2 gases other than water vapour, that contribute to global warming
Biol 2	B17: Biodiversity and ecosystems	B17.17	What global phenomena do we believe will lead to loss of habitat through flooding?
Biol 2	B17: Biodiversity and ecosystems	B17.18	How does deforestation affect our planet's biodiversity?
Biol 2	B17: Biodiversity and ecosystems	B17.19	List 3 sources of pollution from waste, 1 in water, 1 on land and 1 in the air
Biol 2	B17: Biodiversity and ecosystems	B17.20	How important is high diversity for the human species?
Biol 2	B17: Biodiversity and ecosystems	B17.21	List 4 ways uses of land that have reduced land available for animals
Biol 2	B17: Biodiversity and ecosystems	B17.22	What effect does building and dumping waste have on the ecosystem?
Biol 2	B17: Biodiversity and ecosystems	B17.23	What does biotic refer to?
Biol 2	B17: Biodiversity and ecosystems	B17.24	How does recycling affect biodiversity?
Biol 2	B17: Biodiversity and ecosystems	B17.25	Give 2 reasons why we might remove forests?