

Paper	Topic	Q No.	Question
Biol 1	B1: Cell structure and transport	B1.1	What is the role of cytoplasm?
Biol 1	B1: Cell structure and transport	B1.2	What is the typical magnification of a light microscope?
Biol 1	B1: Cell structure and transport	B1.3	What is the formula for magnification?
Biol 1	B1: Cell structure and transport	B1.4	What is the role of chloroplasts?
Biol 1	B1: Cell structure and transport	B1.5	Name the 5 components that make up an animal cell
Biol 1	B1: Cell structure and transport	B1.6	What do mitochondria do?
Biol 1	B1: Cell structure and transport	B1.7	What 3 factors affect diffusion?
Biol 1	B1: Cell structure and transport	B1.8	What does the cell membrane do?
Biol 1	B1: Cell structure and transport	B1.9	What is diffusion?
Biol 1	B1: Cell structure and transport	B1.10	What does the prefix n mean ahead of a unit?
Biol 1	B1: Cell structure and transport	B1.11	Which organisms are made of eukaryotic cells?
Biol 1	B1: Cell structure and transport	B1.12	Name 3 specialised animal cells
Biol 1	B1: Cell structure and transport	B1.13	What do we mean by the term resolving power of a microscope?
Biol 1	B1: Cell structure and transport	B1.14	Name 3 specialised plant cells
Biol 1	B1: Cell structure and transport	B1.15	What is the role of the vacuole?
Biol 1	B1: Cell structure and transport	B1.16	What is the role of chlorophyll?
Biol 1	B1: Cell structure and transport	B1.17	Which organisms are made of prokaryotic cells?
Biol 1	B1: Cell structure and transport	B1.18	What is the typical magnification of an electron microscope?
Biol 1	B1: Cell structure and transport	B1.19	What do ribosomes do?
Biol 1	B1: Cell structure and transport	B1.20	What is active transport?
Biol 1	B1: Cell structure and transport	B1.21	What does the nucleus do?
Biol 1	B1: Cell structure and transport	B1.22	What is osmosis?
Biol 1	B1: Cell structure and transport	B1.23	Name the 8 components that make up a plant cell
Biol 1	B1: Cell structure and transport	B1.24	What does the prefix m mean ahead of a unit?
Biol 1	B1: Cell structure and transport	B1.25	What is the role of the cell wall?
Biol 1	B2: Cell division	B2.1	Name 2 sources of human stem cells
Biol 1	B2: Cell division	B2.2	What do ribosomes do?
Biol 1	B2: Cell division	B2.3	What is the role of cytoplasm?
Biol 1	B2: Cell division	B2.4	Name 2 issues that the use of stem cells
Biol 1	B2: Cell division	B2.5	Name and describe the 3 stages of the cell cycle.
Biol 1	B2: Cell division	B2.6	What are genes?
Biol 1	B2: Cell division	B2.7	Name 3 specialised plant cells
Biol 1	B2: Cell division	B2.8	What is the role of DNA?
Biol 1	B2: Cell division	B2.9	Name 3 specialised animal cells
Biol 1	B2: Cell division	B2.10	What is the role of chloroplasts?
Biol 1	B2: Cell division	B2.11	Name the 5 components that make up an animal cell
Biol 1	B2: Cell division	B2.12	What is asexual reproduction?
Biol 1	B2: Cell division	B2.13	What is the cell cycle for?
Biol 1	B2: Cell division	B2.14	What are chromosomes?
Biol 1	B2: Cell division	B2.15	Name a potential use of human stem cells
Biol 1	B2: Cell division	B2.16	Give 2 reasons why we might wish to clone plants
Biol 1	B2: Cell division	B2.17	Name the 8 components that make up a plant cell
Biol 1	B2: Cell division	B2.18	What does the nucleus do?
Biol 1	B2: Cell division	B2.19	What is special about stem cells?
Biol 1	B2: Cell division	B2.20	What does the cell membrane do?
Biol 1	B2: Cell division	B2.21	What is a clone?
Biol 1	B2: Cell division	B2.22	What do mitochondria do?
Biol 1	B2: Cell division	B2.23	What is mitotic cell division and where is it used?
Biol 1	B2: Cell division	B2.24	What does 'ethical objection' mean?
Biol 1	B2: Cell division	B2.25	What are meristem cells?
Biol 1	B3: Organisation and the digestive system	B3.1	Name 2 food types that contain proteins
Biol 1	B3: Organisation and the digestive system	B3.2	Describe the lock and key theory of catalysts
Biol 1	B3: Organisation and the digestive system	B3.3	What is the name of the enzyme that breaks down protein?
Biol 1	B3: Organisation and the digestive system	B3.4	What are lipids?
Biol 1	B3: Organisation and the digestive system	B3.5	What is tissue made of?
Biol 1	B3: Organisation and the digestive system	B3.6	Name 2 carbohydrates
Biol 1	B3: Organisation and the digestive system	B3.7	What does bile do?
Biol 1	B3: Organisation and the digestive system	B3.8	What are carbohydrates used for?
Biol 1	B3: Organisation and the digestive system	B3.9	What is the role of the large intestine?
Biol 1	B3: Organisation and the digestive system	B3.10	What is the name of the enzyme that breaks down fat?
Biol 1	B3: Organisation and the digestive system	B3.11	What is the role of the pancreas?
Biol 1	B3: Organisation and the digestive system	B3.12	What are organ systems made of?
Biol 1	B3: Organisation and the digestive system	B3.13	Name 3 specialised animal cells
Biol 1	B3: Organisation and the digestive system	B3.14	When an enzyme denatures it stops working. How can you denature an enzyme?
Biol 1	B3: Organisation and the digestive system	B3.15	How do we test for protein?
Biol 1	B3: Organisation and the digestive system	B3.16	What is the role of the liver?
Biol 1	B3: Organisation and the digestive system	B3.17	What is the role of the small intestine?
Biol 1	B3: Organisation and the digestive system	B3.18	What does metabolism mean?
Biol 1	B3: Organisation and the digestive system	B3.19	How do we test for starch?
Biol 1	B3: Organisation and the digestive system	B3.20	What is an enzyme?
Biol 1	B3: Organisation and the digestive system	B3.21	What are proteins used for?
Biol 1	B3: Organisation and the digestive system	B3.22	What is a catalyst?
Biol 1	B3: Organisation and the digestive system	B3.23	What are organs made of?
Biol 1	B3: Organisation and the digestive system	B3.24	Name the carbohydrase enzyme made in the salivary gland?
Biol 1	B3: Organisation and the digestive system	B3.25	What is the role of the stomach?
Biol 1	B4: Organising plants and animals	B4.1	What do your coronary arteries do?
Biol 1	B4: Organising plants and animals	B4.2	What is the role of the stem of a plant?
Biol 1	B4: Organising plants and animals	B4.3	What does the phloem move in a plant?
Biol 1	B4: Organising plants and animals	B4.4	Which blood vessel carries de-oxygenated blood from your heart to your lungs?
Biol 1	B4: Organising plants and animals	B4.5	What 4 things does plasma transport?
Biol 1	B4: Organising plants and animals	B4.6	What 3 components make up the circulatory system?
Biol 1	B4: Organising plants and animals	B4.7	What is the trachea?

Biol 1	B4: Organising plants and animals	B4.8	Which blood vessels carry blood away from your heart at high pressure?
Biol 1	B4: Organising plants and animals	B4.9	Which gas is released from your blood through your lungs?
Biol 1	B4: Organising plants and animals	B4.10	What does the xylem move in a plant?
Biol 1	B4: Organising plants and animals	B4.11	Which blood vessel carries oxygenated blood from your heart to the rest of your body?
Biol 1	B4: Organising plants and animals	B4.12	What is the role of white blood cells?
Biol 1	B4: Organising plants and animals	B4.13	What do we call a tissue of plasma, red blood cells, white blood cells and platelets?
Biol 1	B4: Organising plants and animals	B4.14	What is the role of platelets?
Biol 1	B4: Organising plants and animals	B4.15	What is the word equation for aerobic respiration?
Biol 1	B4: Organising plants and animals	B4.16	Which blood vessel carries oxygenated blood from your lungs back to your heart?
Biol 1	B4: Organising plants and animals	B4.17	Which gas do we need to be absorbed into your blood by the lungs?
Biol 1	B4: Organising plants and animals	B4.18	What is the role of the roots of a plant?
Biol 1	B4: Organising plants and animals	B4.19	Which blood vessels carry blood toward and have valves to stop blood flow reversing?
Biol 1	B4: Organising plants and animals	B4.20	What is the role of the leaf of a plant?
Biol 1	B4: Organising plants and animals	B4.21	What are capillaries?
Biol 1	B4: Organising plants and animals	B4.22	What are alveoli and how are they designed for their role?
Biol 1	B4: Organising plants and animals	B4.23	What is the role of red blood cells?
Biol 1	B4: Organising plants and animals	B4.24	What do we call the process where evaporation from a leaf pulls water through the xylem of a plant?
Biol 1	B4: Organising plants and animals	B4.25	Which blood vessel carries de-oxygenated blood from your body back into your heart?
Biol 1	B5: Communicable diseases	B5.1	What type of microbe causes measles, HIV and tobacco mosaic virus?
Biol 1	B5: Communicable diseases	B5.2	What is a bronchi?
Biol 1	B5: Communicable diseases	B5.3	What is phagocytosis?
Biol 1	B5: Communicable diseases	B5.4	Name a protist disease?
Biol 1	B5: Communicable diseases	B5.5	Which type of microbe is the smallest?
Biol 1	B5: Communicable diseases	B5.6	Name 3 ways pathogens can be spread?
Biol 1	B5: Communicable diseases	B5.7	How does a vaccine make you immune to a disease?
Biol 1	B5: Communicable diseases	B5.8	What do we call a disease that is infectious and can be transmitted from person to person?
Biol 1	B5: Communicable diseases	B5.9	What is a vaccine made of?
Biol 1	B5: Communicable diseases	B5.10	What are antibodies?
Biol 1	B5: Communicable diseases	B5.11	Who was the person who persuaded doctors to wash their hands to prevent spreading diseases?
Biol 1	B5: Communicable diseases	B5.12	Where do viruses reproduce?
Biol 1	B5: Communicable diseases	B5.13	Which type of microbe is not alive?
Biol 1	B5: Communicable diseases	B5.14	What is a pathogen?
Biol 1	B5: Communicable diseases	B5.15	How is malaria spread?
Biol 1	B5: Communicable diseases	B5.16	Name 2 non-communicable diseases that cannot be transmitted from person to person?
Biol 1	B5: Communicable diseases	B5.17	Who was the person who showed that microbes caused diseases and developed the first vaccine?
Biol 1	B5: Communicable diseases	B5.18	What are cilia cells?
Biol 1	B5: Communicable diseases	B5.19	What type of microbe cause rose black spot in plants?
Biol 1	B5: Communicable diseases	B5.20	What is the trachea?
Biol 1	B5: Communicable diseases	B5.21	What type of microbe causes salmonella and gonorrhoea?
Biol 1	B5: Communicable diseases	B5.22	Name the 5 defences the human bodies has against pathogens
Biol 1	B5: Communicable diseases	B5.23	How do bacteria reproduce?
Biol 1	B5: Communicable diseases	B5.24	What are anti-toxins?
Biol 1	B5: Communicable diseases	B5.25	What 4 things can cause ill health?
Biol 1	B6: Preventing and treating diseases	B6.1	What medicine is made from willow trees?
Biol 1	B6: Preventing and treating diseases	B6.2	What is phagocytosis?
Biol 1	B6: Preventing and treating diseases	B6.3	What are anti-toxins?
Biol 1	B6: Preventing and treating diseases	B6.4	What is a placebo?
Biol 1	B6: Preventing and treating diseases	B6.5	Which type of microbe is the smallest?
Biol 1	B6: Preventing and treating diseases	B6.6	Name 3 ways pathogens can be spread?
Biol 1	B6: Preventing and treating diseases	B6.7	What 3 things do we need to check when making new medicines?
Biol 1	B6: Preventing and treating diseases	B6.8	What do we call a disease that is infectious and can be transmitted from person to person?
Biol 1	B6: Preventing and treating diseases	B6.9	Who discovered penicillin?
Biol 1	B6: Preventing and treating diseases	B6.10	What cells are part of our immune system and defend us in 3 ways?
Biol 1	B6: Preventing and treating diseases	B6.11	What are antibiotics?
Biol 1	B6: Preventing and treating diseases	B6.12	Where do viruses reproduce?
Biol 1	B6: Preventing and treating diseases	B6.13	Which type of microbe is not alive?
Biol 1	B6: Preventing and treating diseases	B6.14	What is a pathogen?
Biol 1	B6: Preventing and treating diseases	B6.15	What medicine is made from mould?
Biol 1	B6: Preventing and treating diseases	B6.16	How does a vaccine make you immune to a disease?
Biol 1	B6: Preventing and treating diseases	B6.17	Why don't antibiotics work on viruses?
Biol 1	B6: Preventing and treating diseases	B6.18	What are antibodies?
Biol 1	B6: Preventing and treating diseases	B6.19	Who was the person who showed that microbes caused diseases and developed the first vaccine?
Biol 1	B6: Preventing and treating diseases	B6.20	When doing clinical trials we use a double blind trial. What is a double blind trial?
Biol 1	B6: Preventing and treating diseases	B6.21	Why don't painkillers cure diseases?
Biol 1	B6: Preventing and treating diseases	B6.22	What do we do the first trials of a new medicine on?
Biol 1	B6: Preventing and treating diseases	B6.23	How do bacteria reproduce?
Biol 1	B6: Preventing and treating diseases	B6.24	Why are antibiotic resistant bacteria so concerning?
Biol 1	B6: Preventing and treating diseases	B6.25	What is a vaccine made of?
Biol 1	B7: Non-communicable diseases	B7.1	What do we call a state of physical and mental well being?
Biol 1	B7: Non-communicable diseases	B7.2	Name 4 different natural sources of ionising radiation
Biol 1	B7: Non-communicable diseases	B7.3	Which type of tumour invades neighbouring tissue and spreads throughout the body?
Biol 1	B7: Non-communicable diseases	B7.4	What are benign tumours?
Biol 1	B7: Non-communicable diseases	B7.5	What 4 things can cause ill health?
Biol 1	B7: Non-communicable diseases	B7.6	What medicine is used to reduce blood cholesterol levels and reduce fatty build up in blood vessels?
Biol 1	B7: Non-communicable diseases	B7.7	What can be a cause of Type 2 diabetes?
Biol 1	B7: Non-communicable diseases	B7.8	What is a donor heart?
Biol 1	B7: Non-communicable diseases	B7.9	What 2 conditions can a poor diet and lack of exercise lead to?
Biol 1	B7: Non-communicable diseases	B7.10	What can we replace faulty heart valves with?
Biol 1	B7: Non-communicable diseases	B7.11	Which organ does smoking damage most frequently?
Biol 1	B7: Non-communicable diseases	B7.12	What causes coronary heart disease?
Biol 1	B7: Non-communicable diseases	B7.13	Name 2 non-communicable diseases that cannot be transmitted from person to person?
Biol 1	B7: Non-communicable diseases	B7.14	What is a stent used for?

Biol 1	B7: Non-communicable diseases	B7.15	What are malignant tumours?
Biol 1	B7: Non-communicable diseases	B7.16	What do carcinogens in smoking increase the risk of?
Biol 1	B7: Non-communicable diseases	B7.17	Which gas inhaled when smoking can harm unborn babies?
Biol 1	B7: Non-communicable diseases	B7.18	What non-communicable disease can ionising radiation cause?
Biol 1	B7: Non-communicable diseases	B7.19	What do coronary arteries do?
Biol 1	B7: Non-communicable diseases	B7.20	Why do we discourage pregnant women from drinking alcohol?
Biol 1	B7: Non-communicable diseases	B7.21	What do we call an uncontrolled growth and division of cells?
Biol 1	B7: Non-communicable diseases	B7.22	What organ does drinking alcohol damage most frequently?
Biol 1	B7: Non-communicable diseases	B7.23	What do we call a disease that is infectious and can be transmitted from person to person?
Biol 1	B7: Non-communicable diseases	B7.24	What do we mean if we say there is a negative correlation between people with flu and people who had the flu jab?
Biol 1	B7: Non-communicable diseases	B7.25	What can physical ill health lead to?
Biol 1	B8: Photosynthesis	B8.1	What is the role of the cell wall?
Biol 1	B8: Photosynthesis	B8.2	Plants use glucose to make cellulose. What do they use cellulose for?
Biol 1	B8: Photosynthesis	B8.3	What do all living things need glucose for?
Biol 1	B8: Photosynthesis	B8.4	What is the word equation for aerobic respiration?
Biol 1	B8: Photosynthesis	B8.5	Name the 8 components that make up a plant cell
Biol 1	B8: Photosynthesis	B8.6	What does the nucleus do?
Biol 1	B8: Photosynthesis	B8.7	Sketch the graph of carbon dioxide concentration versus the rate of photosynthesis
Biol 1	B8: Photosynthesis	B8.8	What is the role of cytoplasm?
Biol 1	B8: Photosynthesis	B8.9	Sketch the graph of light intensity versus the rate of photosynthesis
Biol 1	B8: Photosynthesis	B8.10	What do all living things need amino acids for?
Biol 1	B8: Photosynthesis	B8.11	Sketch an experiment we could use to measure the rate of photosynthesis?
Biol 1	B8: Photosynthesis	B8.12	What does the cell membrane do?
Biol 1	B8: Photosynthesis	B8.13	Name the 5 components that make up an animal cell
Biol 1	B8: Photosynthesis	B8.14	What do ribosomes do?
Biol 1	B8: Photosynthesis	B8.15	What is the role of chlorophyll?
Biol 1	B8: Photosynthesis	B8.16	Name 6 adaptations that leaves have to help increase the rate of photosynthesis?
Biol 1	B8: Photosynthesis	B8.17	What 3 factors affect the rate of photosynthesis?
Biol 1	B8: Photosynthesis	B8.18	What two chemicals are needed to make amino acids?
Biol 1	B8: Photosynthesis	B8.19	What is the role of the vacuole?
Biol 1	B8: Photosynthesis	B8.20	How do plants store the glucose they make in photosynthesis?
Biol 1	B8: Photosynthesis	B8.21	What is the role of chloroplasts?
Biol 1	B8: Photosynthesis	B8.22	Sketch the graph of temperature versus the rate of photosynthesis
Biol 1	B8: Photosynthesis	B8.23	What do mitochondria do?
Biol 1	B8: Photosynthesis	B8.24	What energy is absorbed during photosynthesis?
Biol 1	B8: Photosynthesis	B8.25	What is the word equation for photosynthesis?
Biol 1	B9: Respiration	B9.1	What is fermentation and where is it used?
Biol 1	B9: Respiration	B9.2	What is urea?
Biol 1	B9: Respiration	B9.3	What two chemicals are needed to make amino acids?
Biol 1	B9: Respiration	B9.4	Which type of respiration provides the most energy?
Biol 1	B9: Respiration	B9.5	What is the word equation for aerobic respiration?
Biol 1	B9: Respiration	B9.6	Respiration is an exothermic reaction. How can you tell this when you do lots of exercise?
Biol 1	B9: Respiration	B9.7	How do we test for starch?
Biol 1	B9: Respiration	B9.8	What type of respiration happens when there is not enough oxygen present?
Biol 1	B9: Respiration	B9.9	What is starch?
Biol 1	B9: Respiration	B9.10	Why is there an oxygen debt after very strenuous exercise?
Biol 1	B9: Respiration	B9.11	What 5 reactions are included in the metabolic reactions in an animal?
Biol 1	B9: Respiration	B9.12	When does aerobic respiration happen in plants and animals?
Biol 1	B9: Respiration	B9.13	What is breathing?
Biol 1	B9: Respiration	B9.14	What 3 things happen in your body when you do lots of exercise?
Biol 1	B9: Respiration	B9.15	What are enzymes?
Biol 1	B9: Respiration	B9.16	What does metabolism mean?
Biol 1	B9: Respiration	B9.17	What are lipids?
Biol 1	B9: Respiration	B9.18	What is the role of the liver?
Biol 1	B9: Respiration	B9.19	What is the word equation for anaerobic respiration in plants and yeast?
Biol 1	B9: Respiration	B9.20	Plants use glucose to make cellulose. What do they use cellulose for?
Biol 1	B9: Respiration	B9.21	What is the word equation for anaerobic respiration in plants and yeast?
Biol 1	B9: Respiration	B9.22	What is glycogen?
Biol 1	B9: Respiration	B9.23	Where in a cell does aerobic respiration occur?
Biol 1	B9: Respiration	B9.24	What 2 things happen to your lungs when doing vigorous exercise?
Biol 1	B9: Respiration	B9.25	What does lactic acid do to your body?