1. If an atom has 3 electrons and has a neutral charge, how many protons does it contain? 
   3

2. If a shiny surface is not flat, what will happen to light rays incident upon it? 
   They will be reflected in numerous directions

3. Darwin’s theory was not accepted at first because of objections by which establishment? 
   The Church

4. Humans have two sex chromosomes. In women they are known as what? 
   XX

5. Which gas is given off when calcium carbonate is heated? 
   Carbon dioxide

6. A CCD in a digital camera is the equivalent of what in the eye? 
   Retina

7. What property is used in the modern periodic table to sort the elements? 
   Atomic number

8. What is the name of the chemical reagent which is used to test for proteins. 
   Biuret

9. Where is a cloned animal grown? 
   Uterus (womb)

10. What is the name of the specialised cells found on either side of a stoma? 
    Guard

11. Why is iron rarely used as pure iron? 
    It is too brittle

12. Why is aluminium used to make aeroplane bodies? 
    It is very light

13. How is pressure distributed in a liquid? 
    Equally in all directions
14 In chemistry, what is a reversible reaction?  
A reaction that can proceed in both directions

15 Species who die off are known as what?  
Extinct

16 To the nearest minute, how long does it take the light from the sun to reach us?  
8 minutes

17 The forward reaction of the Haber process is exothermic. What does this mean?  
It gives out energy

18 What are echoes?  
Reflections of sounds

19 Plant roots have an enormous surface area for water absorption due to what?  
Root hairs

20 What type of lens is used to correct long sightedness?  
Convex

21 Sperm cells carry two types of chromosomes. What are they known as?  
X and Y

22 The critical angle of diamond is 24 degrees. What is its refractive index?  
2.4

23 The animal that gives birth to the cloned animal is known as a what?  
Surrogate

24 Evolution leads to the formation of new what?  
Species

25 Limestone is sometimes spread on fields and lakes. Why?  
To neutralise acidic soil or water

26 Cloning is an example of which type of reproduction?  
Asexual
27 What determines how fast light travels in a medium?
   Refractive index of the medium

28 Enucleate means the removal of what?
   Nucleus

29 Nitinol is an alloy made from which two metals?
   Nickel and titanium

30 Which type of lens would be a good choice to use for the purposes of magnification?
   A converging lens

31 The loss of water vapour from a surface is known as what?
   Evaporation

32 What type of rock is limestone?
   Sedimentary

33 Bronze and cupronickel are both used to make coins. They are both examples of what?
   Alloys

34 X-rays are part of which spectrum?
   Electromagnetic spectrum

35 The process by which a plant loses water is called what?
   Transpiration

36 Which was the most abundant gas in the Earth's early atmosphere?
   Carbon dioxide

37 Carbon and hydrogen are held together by which type of bonding?
   Covalent

38 What is the name given to sterile handling techniques in microbiology?
   Aseptic
39 In a field, why would there be very few daisies under a tree?
   Not enough light

40 Bacteria must be cultured below which temperature to avoid the growth of pathogens?
   25 degrees C

41 What are the units of pressure?
   Pascals

42 What is a fossil?
   Any evidence of a plant or animal that lived ages ago

43 What leaves the plant through the stomata?
   Water vapour

44 Mayonnaise, ice cream and milk are all examples of which type of oil?
   Emulsions

45 Which gamete cell is needed for cloning?
   Egg

46 What process produces oxygen as a waste product?
   Photosynthesis

47 What is the correct order of the reflex arc?
   Sensory - relay - motor

48 If a chemical is volatile and could cause breathing problems, where is it handled?
   Fume cupboard

49 Evidence for evolution comes from what?
   Fossils

50 What is the unit of power for a lens?
   Dioptre
1 If an atom has 3 electrons and has a neutral charge, how many protons does it contain?

2 If a shiny surface is not flat, what will happen to light rays incident upon it?

3 Darwin's theory was not accepted at first because of objections by which establishment?

4 Humans have two sex chromosomes. In women they are known as what?

5 Which gas is given off when calcium carbonate is heated?

6 A CCD in a digital camera is the equivalent of what in the eye?

7 What property is used in the modern periodic table to sort the elements?

8 What is the name of the chemical reagent which is used to test for proteins?

9 Where is a cloned animal grown?

10 What is the name of the specialised cells found on either side of a stoma?

11 Why is iron rarely used as pure iron?

12 Why is aluminium used to make aeroplane bodies?

13 How is pressure distributed in a liquid?
14 In chemistry, what is a reversible reaction?

15 Species who die off are known as what?

16 To the nearest minute, how long does it take the light from the sun to reach us?

17 The forward reaction of the Haber process is exothermic. What does this mean?

18 What are echoes?

19 Plant roots have an enormous surface area for water absorption due to what?

20 What type of lens is used to correct long sightedness?

21 Sperm cells carry two types of chromosomes. What are they known as?

22 The critical angle of diamond is 24 degrees. What is its refractive index?

23 The animal that gives birth to the cloned animal is known as a what?

24 Evolution leads to the formation of new what?

25 Limestone is sometimes spread on fields and lakes. Why?

26 Cloning is an example of which type of reproduction?
27  What determines how fast light travels in a medium?

28  Enucleate means the removal of what?

29  Nitinol is an alloy made from which two metals?

30  Which type of lens would be a good choice to use for the purposes of magnification?

31  The loss of water vapour from a surface is known as what?

32  What type of rock is limestone?

33  Bronze and cupronickel are both used to make coins. They are both examples of what?

34  X-rays are part of which spectrum?

35  The process by which a plant loses water is called what?

36  Which was the most abundant gas in the Earth's early atmosphere?

37  Carbon and hydrogen are held together by which type of bonding?

38  What is the name given to sterile handling techniques in microbiology?
39 In a field, why would there be very few daisies under a tree?

40 Bacteria must be cultured below which temperature to avoid the growth of pathogens?

41 What are the units of pressure?

42 What is a fossil?

43 What leaves the plant through the stomata?

44 Mayonnaise, ice cream and milk are all examples of which type of oil?

45 Which gamete cell is needed for cloning?

46 What process produces oxygen as a waste product?

47 What is the correct order of the reflex arc?

48 If a chemical is volatile and could cause breathing problems, where is it handled?

49 Evidence for evolution comes from what?

50 What is the unit of power for a lens?