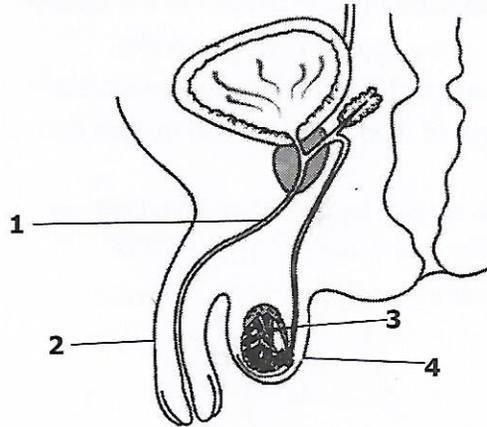
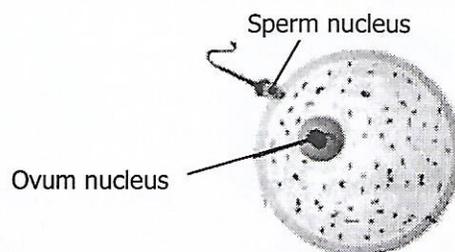


- 1 Study the diagram below on the male reproductive system in human beings.



Which numbered organ is responsible for keeping the temperature conducive for sperm production?

- A 1  
 B 2  
 C 3  
 D 4
- 2 Which of the following is **not** a good health habit?
- A Washing the reproductive organs regularly with soap and clean water.  
 B Changing sanitary towels regularly during menstruation.  
 C Keeping the reproductive organs damp or wet.  
 D Changing underwear regularly and ironing them before wearing.
- 3 The following diagram shows a process that occurs during human reproduction.

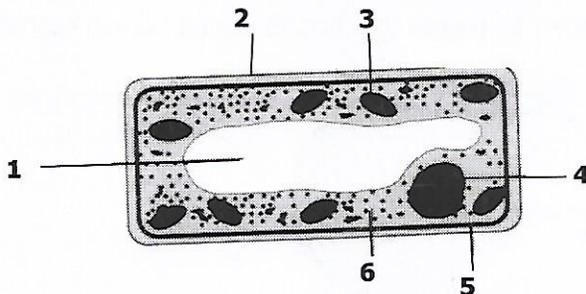


The process shown in the diagram illustrates ...

- A fertilisation.  
 B gestation.  
 C implantation.  
 D ovulation.

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- 4 Which of the following best describes the function of the placenta?
- A Transports food nutrients and oxygen to the embryo.
  - B Protects the embryo against external shocks.
  - C Allows implantation of zygote and embryo development.
  - D Allows exchange of food nutrients and oxygen between the mother and the embryo.
- 5 The deficiency disease caused by lack of vitamin D in the diet resulting in soft and weak bone development is ...
- A kwashiorkor.
  - B marasmus.
  - C rickets.
  - D scurvy.
- 6 Which of the following does **not** describe the importance of the children's clinic?
- A Immunisation of the child against diseases
  - B Growth monitoring through weighing the child
  - C Monitoring if the child will have learning difficulties as it grows
  - D Provision of nutritional advice when there are signs of malnutrition
- 7 Which of the following is **not** an effect of air pollution? It causes ...
- A unpleasant smell.
  - B difficulties in breathing.
  - C lung and heart diseases.
  - D death of aquatic animals.
- 8 The diagram below shows the basic structures of a plant cell.

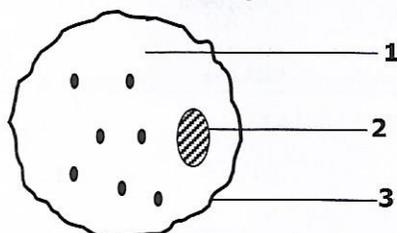


The structures that are NEVER found in the animal cell are ...

- A 1 and 2.
- B 2 and 3.
- C 5 and 6.
- D 1 and 4.

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- 9 What is the name of the process in plants that is negatively affected when oxygen is in limited supply?
- A Osmosis  
B Respiration  
C Transpiration  
D Photosynthesis
- 10 Study the diagram below showing basic structures of an animal cell.

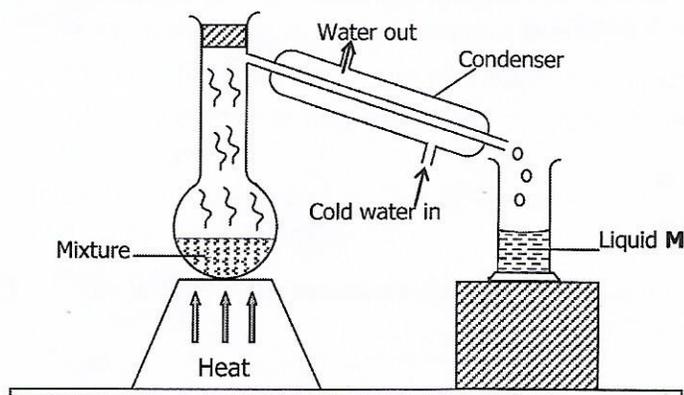


Identify the part(s) of the animal cell showing the site(s) where most chemical processes take place.

- A 1 only  
B 2 only  
C 1 and 3  
D 2 and 3
- 11 Which statement best describes a molecule? A molecule is ...
- A the smallest particle of an element.  
B that which occupies space and has weight.  
C a small group of atoms of elements joined together.  
D a pure substance that cannot be split into simpler substances.
- 12 Pure ice was heated to a temperature of 60°C and then cooled to room temperature. Which row shows the correct state of matter before heating, at 60°C and after cooling?

	Before heating	At 60°C	After Cooling
A	Solid	Vapour	Vapour
B	Liquid	Solid	Liquid
C	Solid	Liquid	Liquid
D	Liquid	Vapour	Liquid

- 13 The diagram below shows an experiment on the separation of a mixture.



What term is used to describe liquid M?

- A Distillate
  - B Filtrate
  - C Residue
  - D Solution
- 14 Which of the following are used to measure mass and weight?

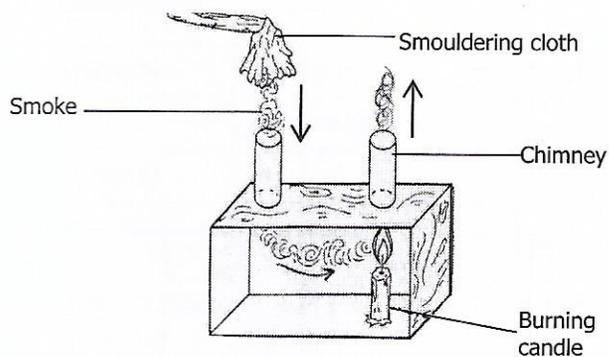
	Mass	Weight
A	Beam balance	Spring balance
B	Scale	Beam balance
C	Beam balance	Scale
D	Spring balance	Beam balance

- 15 A learner was asked to determine the density of a stone. She made the following measurements:
- 1 Volume of water in the measuring cylinder before immersing the stone =  $30\text{cm}^3$ .
  - 2 Volume of water in the measuring cylinder after immersing stone =  $50\text{cm}^3$ .
  - 3 Mass of measuring cylinder and  $30\text{cm}^3$  of water = 120g.
  - 4 Mass of measuring cylinder,  $30\text{cm}^3$  of water and the stone = 170g.

Use the information above to determine the density of the stone. The density of the stone is ...

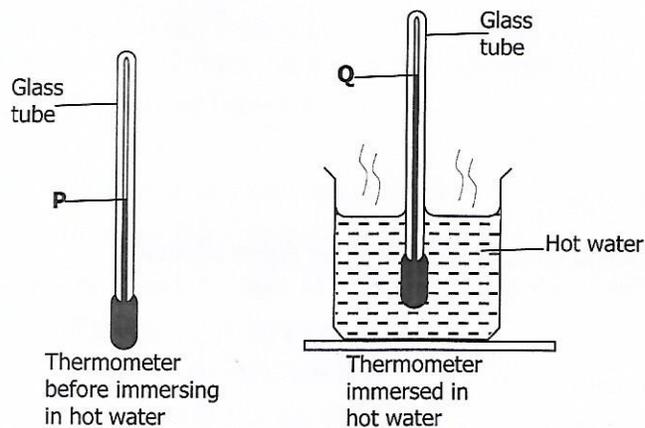
- A  $1.6\text{g/cm}^3$ .
- B  $2.5\text{g/cm}^3$ .
- C  $4.0\text{g/cm}^3$ .
- D  $9.0\text{g/cm}^3$ .

- 16 Study the following diagram on an experiment on heat transfer.



The experiment is demonstrating heat transfer by ...

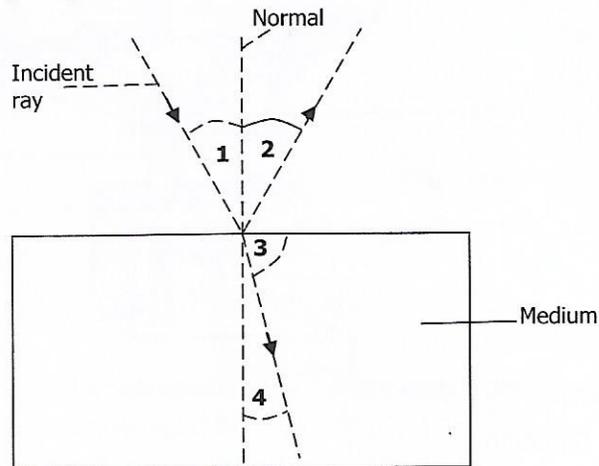
- A radiation.
  - B convection.
  - C convection and conduction.
  - D radiation and convection.
- 17 The diagrams below show different levels of mercury in a thermometer before and after it was immersed in hot water.



What is the reason for the change in the mercury level from **P** to **Q**?  
This was because the ...

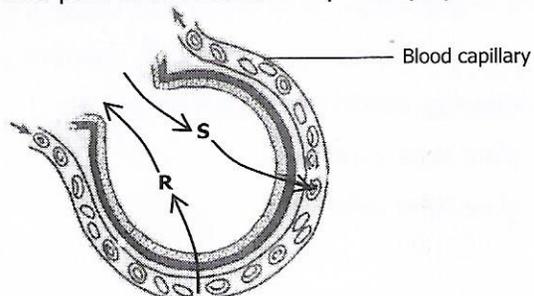
- A mercury expanded.
- B mercury contracted.
- C glass tube expanded.
- D glass tube contracted.

- 18 Study the following diagram showing an experiment on light.



Which numbered angle shows the angle of reflection?

- A 1
  - B 2
  - C 3
  - D 4
- 19 Which of the following is the second most abundant gas in clean air?
- A Carbon dioxide
  - B Nitrogen
  - C Oxygen
  - D Sulphur dioxide
- 20 Which of the following components of blood fights disease?
- A Plasma
  - B Platelets
  - C Red blood cells
  - D White blood cells
- 21 The diagram below shows part of the human respiratory system.

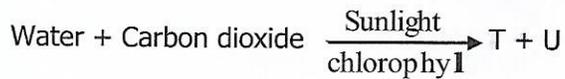


Identify the gases **R** and **S**.

	<b>R</b>	<b>S</b>
<b>A</b>	Carbon dioxide	Nitrogen
<b>B</b>	Oxygen	Carbon dioxide
<b>C</b>	Carbon dioxide	Oxygen
<b>D</b>	Nitrogen	Oxygen

- 22** Which of the following statements is true about gonorrhoea, syphilis and herpes? They all can be ...
- A** transmitted by virus.
  - B** transmitted by bacteria.
  - C** treated using antibiotics.
  - D** prevented by similar methods.
- 23** Which one of the following is **not** a mode of transmission of HIV?
- A** Sharing the same bed with an infected person.
  - B** Infected mother to child at birth and after birth.
  - C** Sharing needles contaminated with fresh blood.
  - D** Having sexual contact with an infected person.
- 24** What changes nitrogen back into gaseous state in the nitrogen cycle?
- A** Denitrifying bacteria.
  - B** Lightning.
  - C** Nitrogen fixing bacteria in the soil.
  - D** Nitrogen fixing bacteria in legumes.
- 25** Chlorine is added to water at a treatment plant in order to ...
- A** filter out small particles.
  - B** sediment big solid particles.
  - C** kill viruses in the water.
  - D** kill bacteria or germs in the water.
- 26** Which of the following trees is in great danger of extinction due to illegal timber exploitation?
- A** Masuku
  - B** Mubanga
  - C** Mukwa
  - D** Mulombe

- 27 Below is an incomplete word equation.



Identify products **T** and **U**.

	<b>T</b>	<b>U</b>
<b>A</b>	Oxygen	Energy
<b>B</b>	Starch	Oxygen
<b>C</b>	Starch	Nitrogen
<b>D</b>	Oxygen	Starch

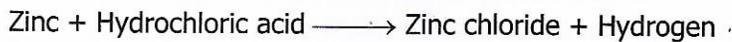
- 28 What term is used to describe the process by which plants lose water into the atmosphere?

- A** Expiration
- B** Inspiration
- C** Respiration
- D** Transpiration

- 29 Which of the following is an endothermic reaction?

- A** Burning
- B** Electrolysis
- C** Precipitation
- D** Rusting iron

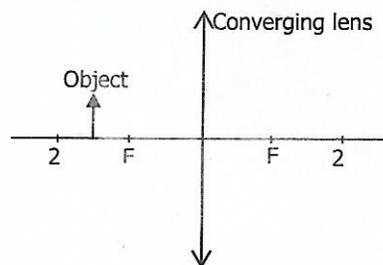
- 30 Study the following equation on a chemical reaction.



This is an example of ...

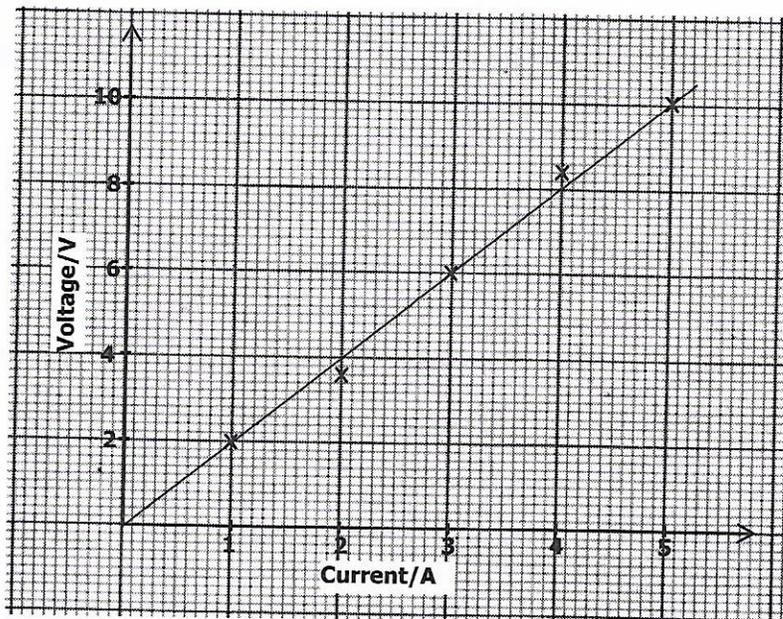
- A** decomposition.
- B** double replacement.
- C** single replacement.
- D** synthesis.

- 31 The diagram shows an object placed between F and 2F.



The image of the object shown in the diagram produced by the lens will be ...

- A real and inverted.
  - B virtual and inverted.
  - C real and erect.
  - D virtual and erect.
- 32 A lady wearing a red dress went into a room where there was green light. What colour will her dress appear?
- A Black
  - B Green
  - C Red
  - D White
- 33 The graph below shows results obtained from an experiment to determine the resistance of a wire.



Using the information on the graph, determine the resistance of the wire. The resistance of the wire will be ...

- A  $0.5\Omega$ .
- B  $1.0\Omega$ .
- C  $2.0\Omega$ .
- D  $2.5\Omega$ .

34 The following is a list of appliances that use electric current:

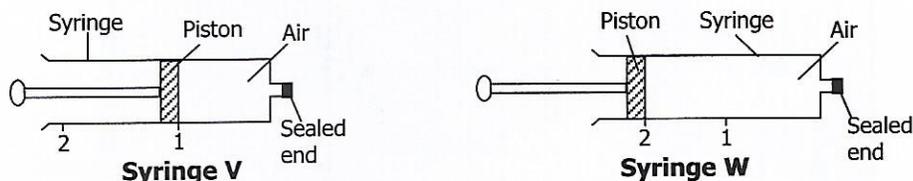
- 1 Electric fan
- 2 Electric cooker
- 3 Electric shaving machine
- 4 Electric kettle
- 5 Electric pressing iron

Which of the following numbers show appliances that mainly use electric current for heating?

- A** 1, 3, 4  
**B** 2, 4, 5  
**C** 2, 3, 4  
**D** 1, 2, 5

35 The diagrams below show two sealed syringes of equal volume and containing the same amount of air.

The piston in syringe **V** is pushed to **1** while that in syringe **W** remained at **2**.



Which of the following is true about the pressure of the air in syringe **V** and **W**?

	Pressure of air in <b>V</b>	Pressure of air in <b>W</b>
<b>A</b>	High	Low
<b>B</b>	High	High
<b>C</b>	Low	High
<b>D</b>	Low	Low

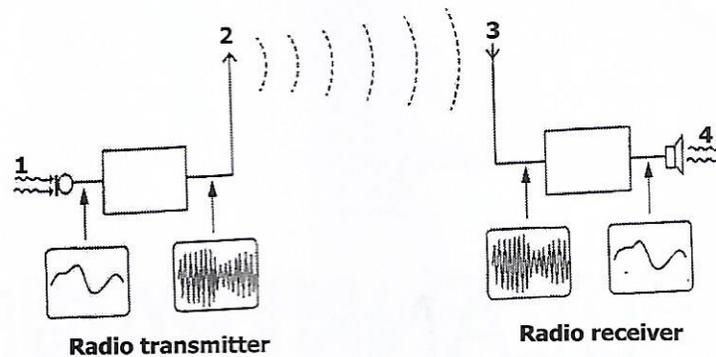
36 Which of the following is **not** a way of conserving energy?

- A** Using energy saver bulbs for lighting
- B** Planting trees around the house
- C** Reducing the amount of waste we produce
- D** Using mostly charcoal and wood for cooking

- 37 What is the disadvantage of using television as a means of communication?
- A Television combines sound and pictures.
  - B It has a negative effect on eyesight.
  - C It provides a different form of entertainment.
  - D Television has a limited coverage and less audience.

- 38 Analogue signal is best defined as a signal that ...
- A is obtained from sounds.
  - B is obtained from pictures.
  - C changes in light levels and voltage pulses.
  - D continuously changes in both frequency and amplitude.

39 Study the diagram below illustrating radio transmission.



The numbered parts are ...

	1	2	3	4
A	Microphone	Transmission antenna	Reception antenna	Loudspeaker
B	Loudspeaker	Reception antenna	Transmission antenna	Microphone
C	Reception antenna	Loudspeaker	Microphone	Transmission antenna
D	Transmission antenna	Microphone	Loudspeaker	Reception antenna

- 40 Which one of the following is **not** an advantage of satellite communication?
- A The systems of communication can easily be deployed.
  - B It is flexible as it can provide a variety of communication.
  - C *Mobility is easy as communications are able to reach out globally.*
  - D Operational costs and installation of satellite systems are affordable.