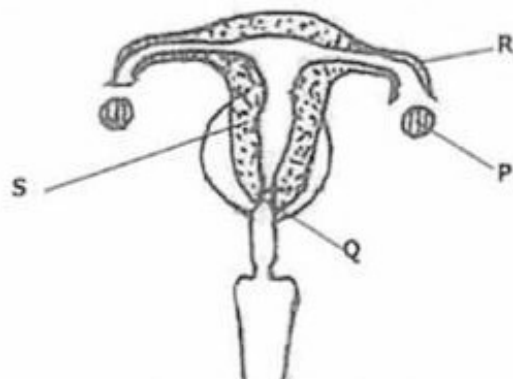


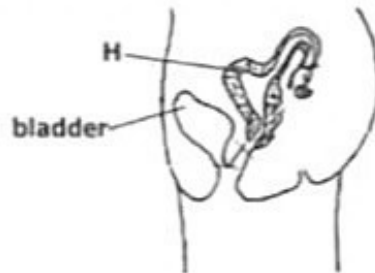
- 1 Below is a diagram of the female reproductive system.



Which letter identifies the organ called cervix?

- A P  
 B Q  
 C R  
 D S
- 2 Why is it important for one to observe personal hygiene of their reproductive organs?
- A Allow the organs to grow gradually.  
 B Avoid the organs getting infections.  
 C Prevent sexually transmitted diseases.  
 D Help prevent HIV transmission.
- 3 Below is a list of activities that take place in the process of fertilisation and embryo development over a period of time.
1. fusion of sperm and ovum
  2. sexual intercourse
  3. formation of zygote
  4. attachment of zygote to uterus
- Which of the following shows the correct order of how these activities happen?
- A 2 → 1 → 3 → 4  
 B 1 → 3 → 4 → 2  
 C 2 → 1 → 4 → 3  
 D 1 → 4 → 2 → 3

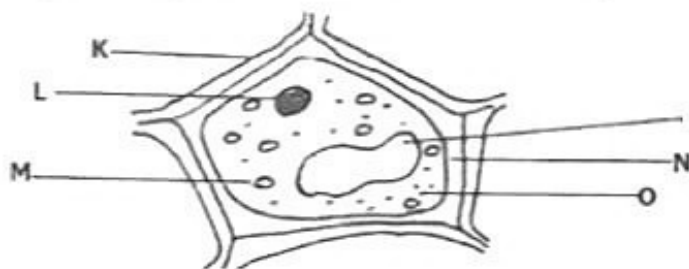
- 4 The diagram below shows the side view of the female reproductive organs.



Identify structure **H** and its corresponding function.

- |   | Structure H | Function                            |
|---|-------------|-------------------------------------|
| A | Placenta    | Supplying food and oxygen to foetus |
| B | Oviduct     | Passage of the ovum from ovary      |
| C | Uterus      | Organ where embryo develops         |
| D | Ovary       | To produce female sex cells         |
- 5 State the food type that you would prescribe for a manual worker.  
Food rich in ...
- A fats.  
B proteins.  
C minerals.  
D carbohydrates.
- 6 Which of the following information may **not** be obtained from the children's clinic card?
- A Number of siblings.  
B Number of visits to the clinic.  
C Age of the child's mother.  
D Age of the child.
- 7 Which pair shows correctly causes of pollution to the environment?
- |   | Caused by human      | Caused by nature         |
|---|----------------------|--------------------------|
| A | burning fossil fuels | volcanic eruptions       |
| B | forest fires         | industrial emission      |
| C | wind erosion         | incinerators             |
| D | pollen dispersal     | waste from mining plants |

- 8 Below is a diagram of a plant cell as seen under a microscope.



Which labelled structure represents the protoplasm?

- A L and O  
 B L and J  
 C N and M  
 D K and M

- 9 The diagram below shows stages of plant growth.



Which regions of plant growth are shown by the numbered parts diagram?

	Shoot	Root	Stem
A	1	2	3
B	3	1	2
C	2	1	3
D	2	3	1

- 10 The list below shows functions of parts of cells.

1. Protection of cell
2. Selectively permeable
3. Controls all cell activities
4. Contains chlorophyll

Which functions are **only** of parts found in a plant cell?

- A 1 and 2  
 B 1 and 4  
 C 3 and 2  
 D 3 and 4

- 11 Which list correctly identifies the symbols of common atoms?

	Iron	Copper	Hydrogen	Carbon
A	Eg	C	H	Cu
B	Cu	Fe	H <sub>2</sub> O	CO <sub>2</sub>
C	Fe	Cu	H	C
D	Cu	C	H <sub>2</sub>	Cu

- 12 If the substance **A** boils at 98°C and melts at -100°C, determine its state when the temperature is -130°C.

- A Solid  
 B Liquid  
 C Gas and Solid  
 D Liquid and Gas

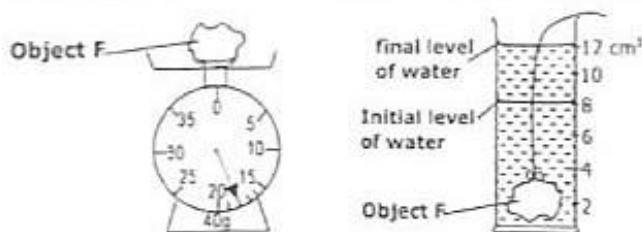
- 13 Which of the following methods of separating mixtures show a correct sequence that can be used to obtain pure salt from seawater?

- A Evaporation → Sublimation → Distillation  
 B Filtration → Evaporation → Crystallisation  
 C Evaporation → Chromatography → Crystallisation  
 D Filtration → Chromatography → Sublimation

- 14 What is the weight of a packet of salt with a mass 500g?  
 (Take acceleration due to gravity as 10N/kg)

- A 0.5N  
 B 5.0N  
 C 50.0N  
 D 5000.0N

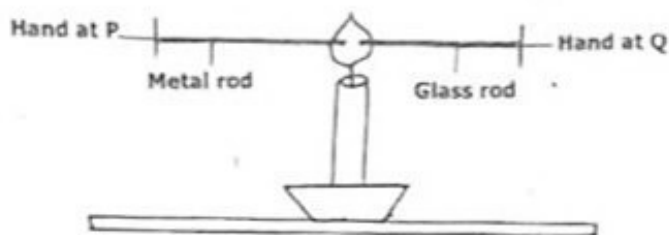
- 15 Study the diagram below on determination of density.



Calculate the density of object F. The density of F is ...

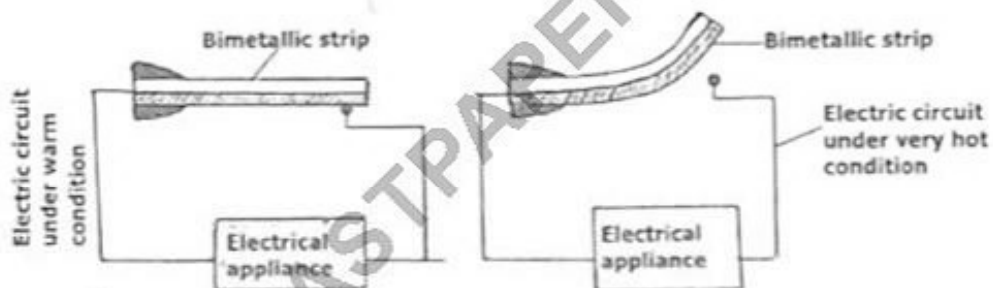
- A 1.5g/cm<sup>3</sup>  
 B 2.5g/cm<sup>3</sup>  
 C 4.0g/cm<sup>3</sup>  
 D 4.5g/cm<sup>3</sup>

- 16 Study the diagram below on heat.



The hand at P feels the heat faster than that at Q. This is because ...

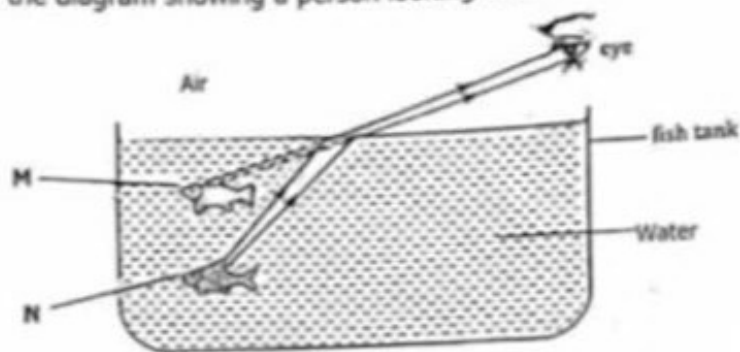
- A metal is a poor conductor of heat.
  - B glass is a good conductor of heat.
  - C metal is a good conductor of heat.
  - D glass is a better conductor of heat.
- 17 Study the diagrams below showing the bimetallic strip under warm condition and under very hot condition.



In which electrical appliance would such a type of circuit be used?

- A Computer
- B Electric fan
- C Electric pressing iron
- D Thermos flask

- 18 Study the diagram showing a person looking at a fish in a fish tank.

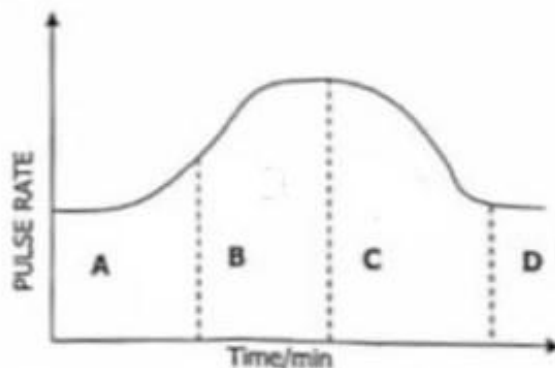


Which of the following statements is correct observation of the fish? The real position of the fish is ...

- A N because light is refracted as it moves from water to air.  
 B N because light travels in straight lines.  
 C M because light travels in straight lines.  
 D M because light is refracted as it moves from water to air.
- 19 Which of the following correctly describes the uses of oxygen, carbon dioxide and hydrogen?

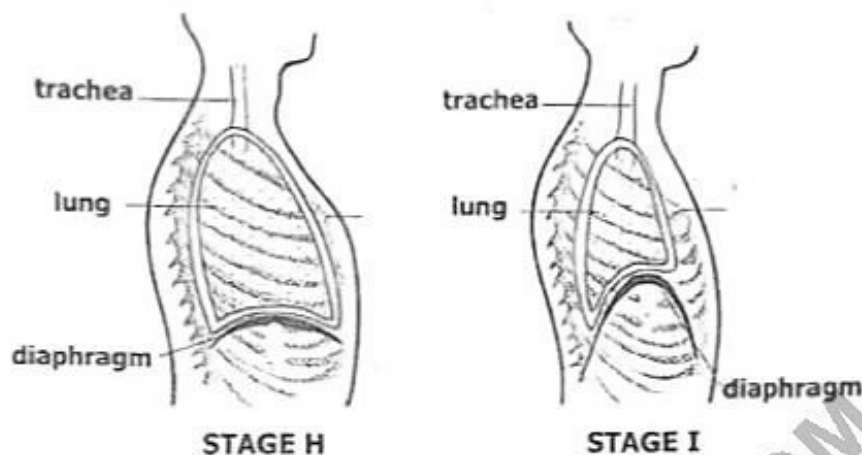
	Oxygen	Carbon dioxide	Hydrogen
A	Used in fizzy drinks	Hardening vegetable oils	Used in hospitals
B	Used in steel works	Used in fizzy drinks	Hardening vegetable oils
C	Hardening vegetable oils	Used in steel works	Used in fizzy drinks
D	Used in fire extinguishers	Used in fizzy drinks	Used in hospitals

- 20 The graph below shows the pulse rate of a person before, during and after an exercise.



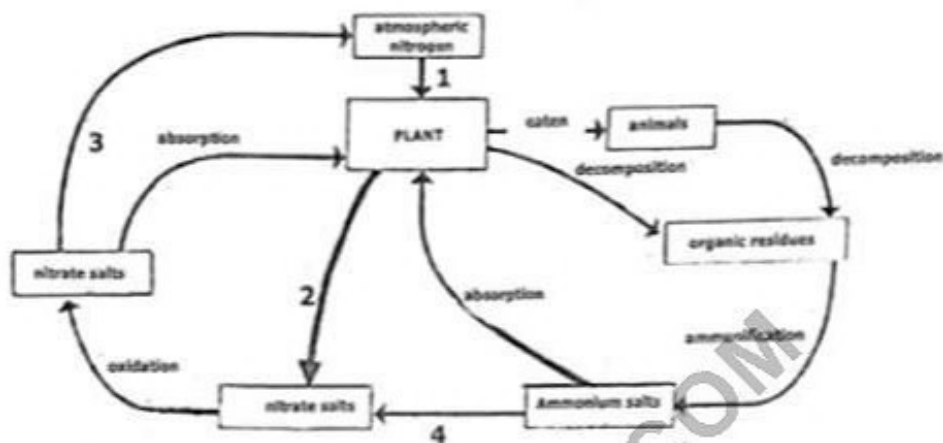
Which letter shows the period of exercising?

- 21 The diagrams below show stages in human respiration.



- Which of the stages correctly shows inspiration?
- A Stage H because the diaphragm is flattened.  
 B Stage H because the lung space is reduced.  
 C Stage I because the diaphragm is dome shaped.  
 D Stage I because the lung space is increased.
- 22 Which of the following describes the best way of prevention of Sexually Transmitted Infections (STIs) among adolescents?
- A Consistence use of condoms.  
 B Correct use of condoms.  
 C Abstinence from sex until marriage.  
 D Having sex with a faithful partner only.
- 23 Which of the following diseases is transmitted mainly through sexual intercourse?
- A Malaria  
 B Syphilis  
 C Typhoid  
 D Scabies

24 The diagram below shows a cycle of the biosphere.



Identify processes 1, 2, 3 and 4.

	1	2	3	4
A	Lightning	Denitrification	Nitrification	Nitrogen fixation
B	Nitrification	Nitrogen fixation	Denitrification	Lightning
C	Denitrification	Nitrification	Lightning	Nitrogen fixation
D	Lightning	Nitrogen fixation	Denitrification	Nitrification

25 Which one of the reasons for good water management below does **not** help to maintain animal and plant life? Water for ...

- A agriculture purposes.
- B domestic supply.
- C fish farming.
- D recreation.

26 Below is a list of some animals domesticated by man.

- 1. Cattle
- 2. Cat
- 3. Sheep
- 4. Goat
- 5. Dog
- 6. Duck

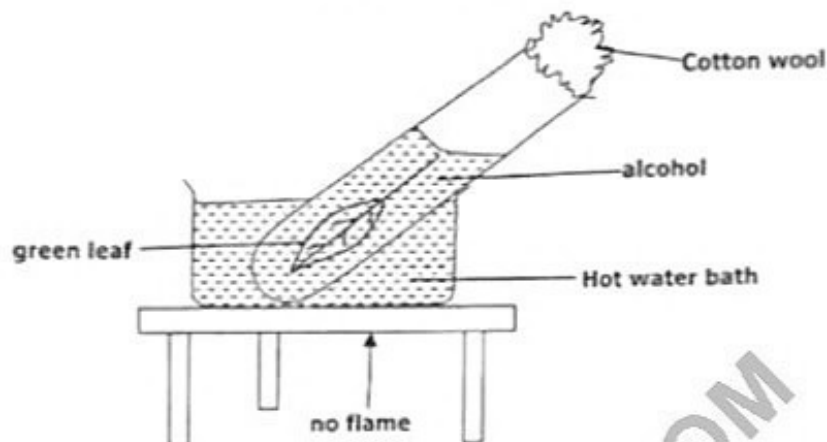
Which two animals above are domesticated for milk production?

- A 1 and 3
- B 3 and 4
- C 4 and 6
- D 1 and 4

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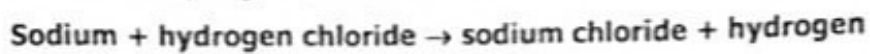
- 27 The diagram below shows a stage in testing a leaf for starch.



What is the purpose of the stage in the diagram?

- A Killing protoplasm  
 B Removing chlorophyll  
 C Making a leaf soft  
 D Hardening the leaf
- 28 A student treated four identical leaves as follows:
- Leaf 1: Petroleum jelly was applied to both lower and upper surfaces.
  - Leaf 2: Petroleum jelly was applied only to lower surface.
  - Leaf 3: Petroleum jelly was applied only to upper surface.
  - Leaf 4: was left untreated.
- Which leaf stays fresh for a long time?
- A 1  
 B 2  
 C 3  
 D 4
- 29 The law that states that mass of a substance before a chemical reaction is equal to the total mass of the substances that are produced is called the law of ...
- A conservation of matter.  
 B conservation of energy.  
 C conversion of matter.  
 D conversion of energy.

- 30 Sodium and hydrogen chloride react as shown in the chemical equation below.



The type of chemical reaction shown in the equation above is called ...

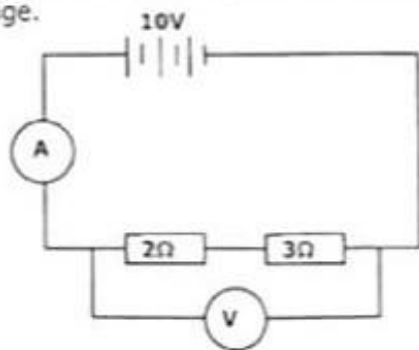
- A Synthesis  
 B Single replacement  
 C Double decomposition  
 D Double replacement
- 31 An object is placed 6cm from a bi-convex lens of focal length 2cm. Which statement below shows the nature of the image formed?
- A Magnified, Real and Upright.  
 B Virtual, Upright and Diminished.  
 C Real, Upside down and Diminished.  
 D Virtual, Upside down and Same size as object.
- 32 The diagram below shows a flag with three different colours.



If you looked at the flag through a piece of red glass, which of these colours would you see?

- A Blue      Red      White  
 B Red      Red      Black  
 C Black      Red      Red  
 D Red      Red      Red

Study the diagram showing an experiment on the relationship between current and voltage.

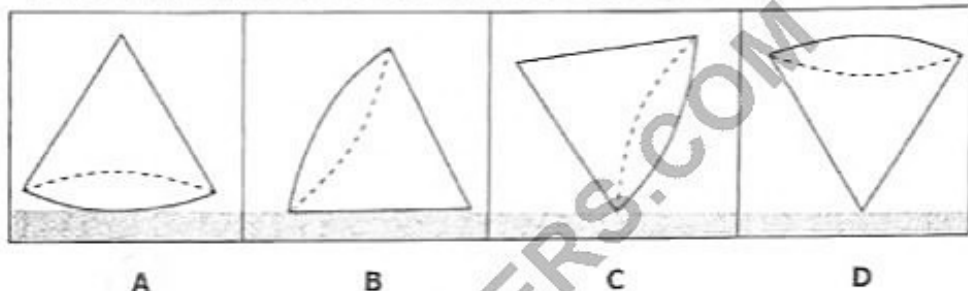


Calculate the current reading on the ammeter. The reading will be ...

- A 2A  
 B 5A  
 C 10A  
 D 50A

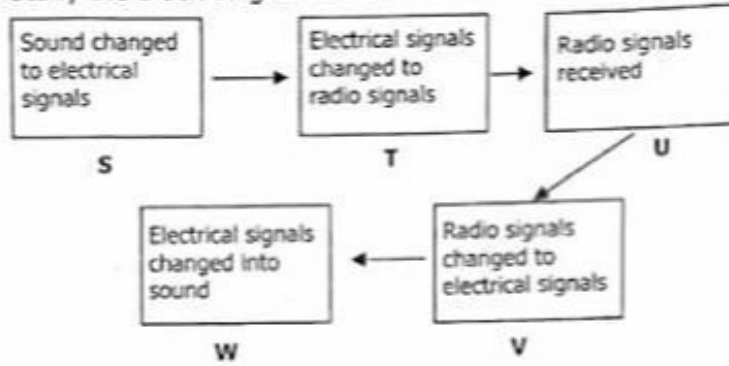
- 34 Which of the following appliances used in the local environment converts electric current into both light and sound energy?
- A Heater
  - B Cellphones
  - C Electric fans
  - D Energy saving bulbs

- 35 The diagrams below show the same cone placed in different positions on a surface. Which position exerts the most pressure on the surface?



- 36 Which one of the following is **not** the best way of conserving energy?
- A Re-use waste to generate energy.
  - B Avoid using energy to avoid wasting.
  - C Reduce the amount of energy wasted.
  - D Recycle waste into new products.
- 37 Which pair correctly shows communication using visual signals?
- A Smoke and telegraph
  - B Traffic lights and letters
  - C E-mail and messenger
  - D Radio and heliograph
- 38 Which one is **not** an advantage of a method of sending information through text messaging using a cellphone?
- A It is cheaper than a phone call.
  - B It is good for recording messages and their contents.
  - C It's message can be read at any time.
  - D It's messages are short.

39 Study the block diagram on communication shown below.



What communication devices are represented at **T** and **W**?

	<b>T</b>	<b>W</b>
A	Microphone	Loud speaker
B	Microphone	Antenna
C	Transmitter	Loud speaker
D	Transmitter	Antenna

40 A geostationary satellite is one which ...

- A orbits in the atmosphere as it receives information.
- B is stationed on earth as it transmits information.
- C moves beyond the earth exploring the space.
- D moves so as to remain in the same area above the earth.

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