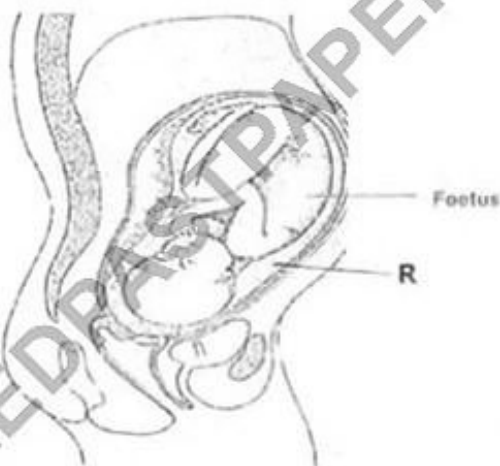


- 1 Which of the following indicates the correct sequence of travel of an unfertilised ovum from the beginning until it leaves the female body?
- A Ovary→Uterus→Oviduct→Vagina
 - B Uterus→Vagina→Oviduct→Ovary
 - C Uterus→Oviduct→Vagina→Ovary
 - D Ovary→Oviduct→Uterus→Vagina
- 2 Which body changes happen during puberty in both girls and boys?
- A Body grows rapidly.
 - B Breasts grow large.
 - C Pubic hair grows around the vulva.
 - D Pubic hair grows at the base of the penis.
- 3 The diagram below shows the position of a foetus just before birth in humans.



- The function of the part labelled R is to ...
- A prevent miscarriage.
 - B protect the foetus from mechanical shock.
 - C stabilise temperature around the foetus.
 - D push the foetus down during childbirth.
- 4 A woman has a pregnancy which is 24 weeks. How many weeks is she remaining with in order for her to have a normal birth?
- A 10
 - B 12
 - C 16
 - D 18

- 5 The table below shows nutrients and their sources.

	Nutrient	Source
A	Fats	Butter, Cassava, Cooking Oil
B	Proteins	Meat, Rape, Groundnuts
C	Vitamin D	Eggs, Milk, Apples
D	Carbohydrates	Maize, Potatoes, Cassava

Which of the above correctly shows the nutrient and its corresponding source?

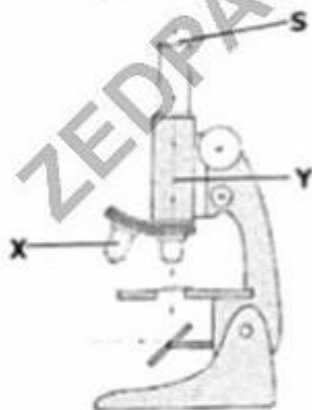
- 6 The disease that occurs in children because of lack of protein in the diet is ...

- A** kwashiorkor.
- B** marasmus.
- C** rickets.
- D** scurvy.

- 7 Which of the following is **not** a natural cause of air pollution?

- A** Forest fires
- B** Wind erosion
- C** Volcanic eruptions
- D** Waste from incinerators

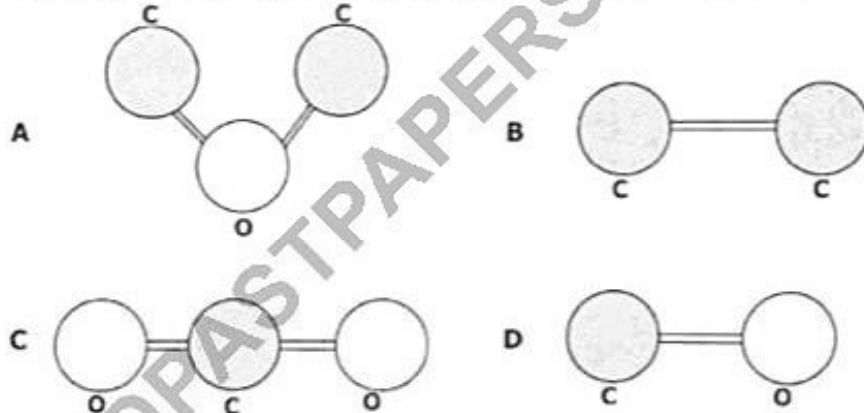
- 8 The diagram below shows parts of a microscope.



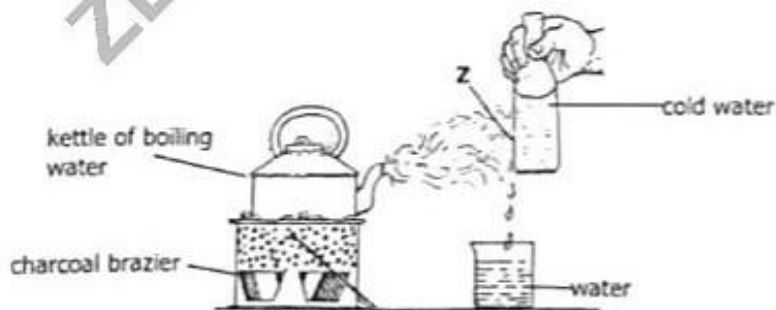
Identify the parts labelled **S**, **X** and **Y**.

	S	X	Y
A	Eyepiece	Objective lens	Body tube
B	Body tube	Eyepiece	Rotating nose piece
C	Eyepiece lens	Rotating nose tube	Body tube
D	Rotating nose piece	Objective lens	Eyepiece

- 9 The process in plants that makes it possible for water and mineral salts to move from the roots to the rest of the plant is ...
- A osmosis.
B respiration.
C transpiration.
D photosynthesis.
- 10 Which set correctly shows parts that are found in both plant and animal cells?
- A Nucleus, Cell wall and Cell membrane
B Chloroplast, Nucleus and Cell membrane
C Cytoplasm, Cell membrane and Nucleus
D Cell wall, Cytoplasm and Cell membrane
- 11 Which of the following correctly gives the model of a carbon dioxide molecule?



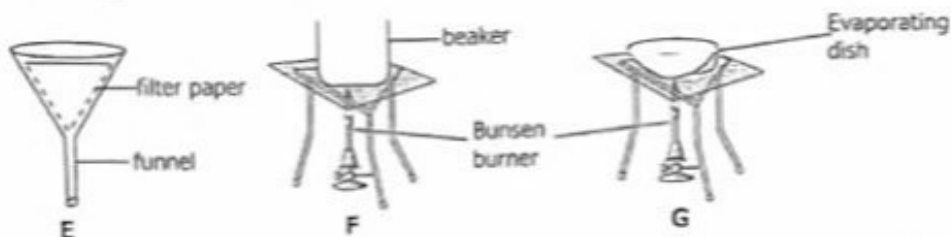
- 12 The diagram below shows water being heated in a kettle.



What change of state is shown at point Z?

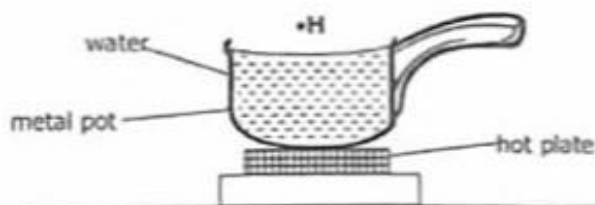
- A Boiling
B Condensation
C Evaporation
D Melting

- 13 The diagrams below show three sets of apparatus labelled E, F and G.



Which apparatus would be used to obtain separate samples of sand and salt from a mixture of sand and sea water?

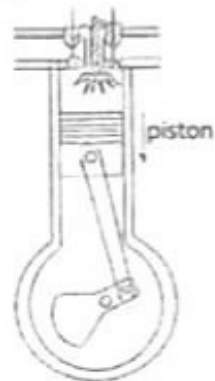
- A E only
 B G only
 C F and G
 D E and G
- 14 Calculate the weight of a 15kg mass on the earth's surface. (Take the gravitational force to be 10N/kg)
- A 1.5N
 B 5.0N
 C 150.0N
 D 1 500.0N
- 15 A beaker containing 40cm³ of liquid F weighed 90g. What is the density of liquid F if the mass of the beaker is 30g?
- A 0.67g/cm³
 B 1.50g/cm³
 C 2.25g/cm³
 D 3.00g/cm³
- 16 The diagram below shows a metal pot containing water placed on a hot plate.



After some time the air at point H became hot. Which of the following gives the main ways through which heat travels up to point H?

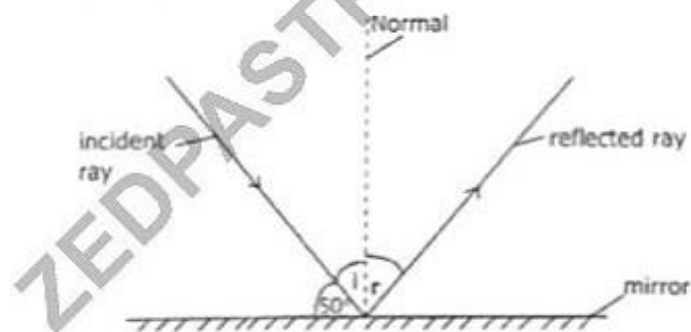
- | | From hot plate to the pot | Through the water | From the surface of water to point H |
|---|---------------------------|-------------------|--------------------------------------|
| A | Conduction | Convection | Convection |
| B | Conduction | Radiation | Convection |
| C | Convection | Convection | Conduction |
| D | Convection | Conduction | Radiation |

- 17 Study the diagram below which shows the power stroke stage of a four stroke combustion engine.



What process causes the piston in the cylinder to move downwards?

- A Compression
 - B Contraction
 - C Convection
 - D Expansion
- 18 Study the diagram below.



The angle of reflection r is ...

- A 25° .
- B 40° .
- C 50° .
- D 90° .

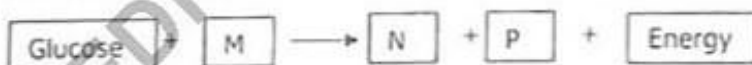
- 19 The table below shows the approximate percentages by volume of gases in air.

Gas	Percentage of gas in air
I	0.03
J	0.97
K	21
L	78

Identify gases I, J, K and L.

- | | I | J | K | L |
|---|----------------|----------------|----------------|-------------|
| A | Nitrogen | Carbon dioxide | Inert gases | Oxygen |
| B | Oxygen | Nitrogen | Carbon dioxide | Inert gases |
| C | Inert gases | Carbon dioxide | Nitrogen | Oxygen |
| D | Carbon dioxide | Inert gases | Oxygen | Nitrogen |
- 20 Which blood vessel carries blood at high pressure with a high carbon dioxide concentration?
- A Aorta
B Vena Cava
C Pulmonary Artery
D Pulmonary Vein

- 21 Study the incomplete word equation on tissue respiration.

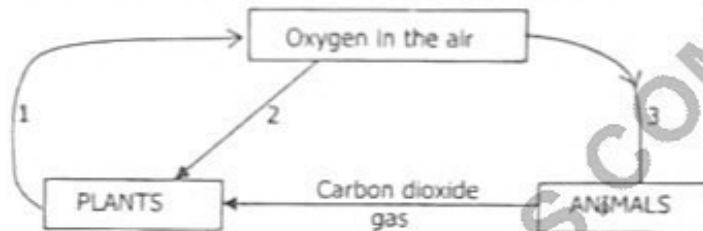


What substances are M, N and P to complete the equation?

- | | M | N | P |
|---|----------------|----------------|--------|
| A | Carbon dioxide | Water | Oxygen |
| B | Oxygen | Carbon dioxide | Water |
| C | Water | Carbon dioxide | Oxygen |
| D | Carbon dioxide | Oxygen | Water |
- 22 Which pair of sexually transmitted infections (STIs) is caused by bacteria?
- A HIV and Syphilis
B HIV and Genital Warts
C Gonorrhoea and Syphilis
D Gonorrhoea and Genital Warts

- 23 Which one of the following does NOT explain the impact of HIV and AIDS on the population?
- A Increase of orphans
 - B Increase of poverty
 - C Decrease of the economy
 - D Decrease of the pressure on health services

- 24 Study the diagram below showing the oxygen cycle.

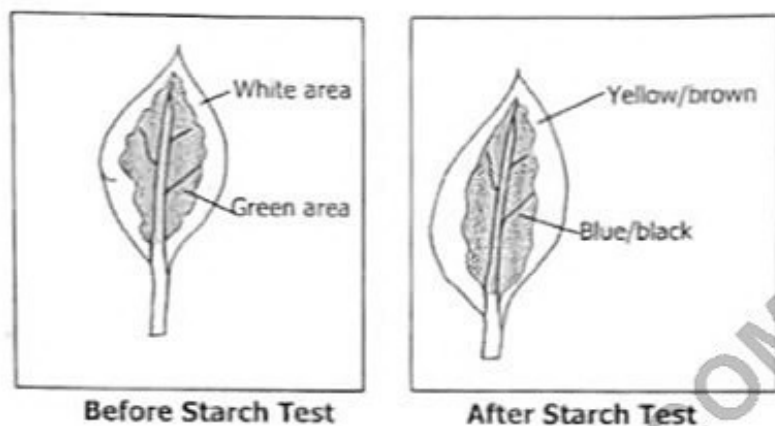


Identify processes 1, 2 and 3.

- | | | | |
|---|----------------|----------------|---------------|
| | 1 | 2 | 3 |
| A | Photosynthesis | Respiration | Respiration |
| B | Transpiration | Combustion | Respiration |
| C | Respiration | Photosynthesis | Combustion |
| D | Combustion | Transpiration | Transpiration |
- 25 Which one of the following is **not** an effective way of water management?
- A Ensuring constant supply of water.
 - B Providing quality and safe drinking water.
 - C Purifying surface water in rivers, lakes and dams.
 - D Building dams and water reservoirs.
- 26 What is the use of chlorine in water management? This is to ...
- A kill bacteria in water.
 - B Improve the taste of water.
 - C make water clean to drink.
 - D remove dirty particles from water.
- 27 Which process can be used to produce a pure plant breed?
- A Cross pollination
 - B Self pollination
 - C Natural pollination
 - D Artificial pollination

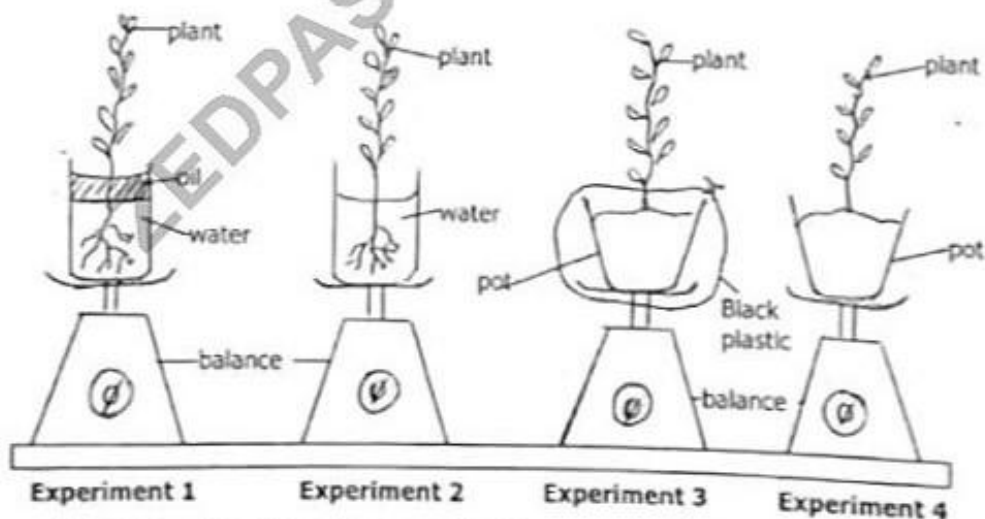


- 28 The diagrams below show a variegated leaf before and after it was tested for starch.



The best conclusion that can be made from the results is that the white area of the leaf lacked ...

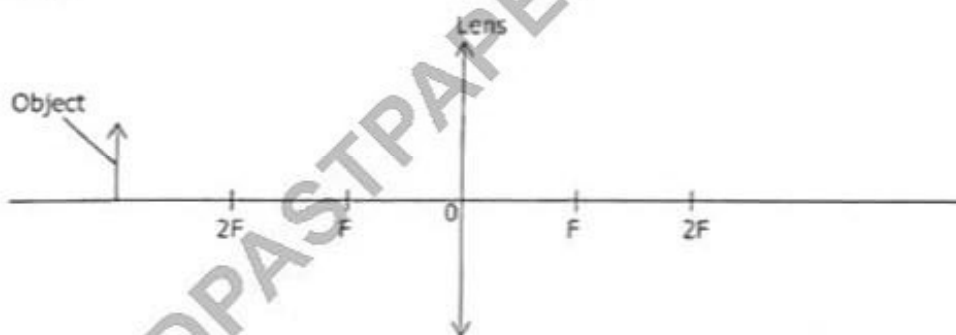
- A oxygen.
 - B sun light.
 - C chlorophyll.
 - D carbon dioxide.
- 29 Study the diagrams below showing experiments on transpiration.



After a few days it was observed that the mass in all the experiments had decreased. Which pair shows water loss mainly by transpiration?

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

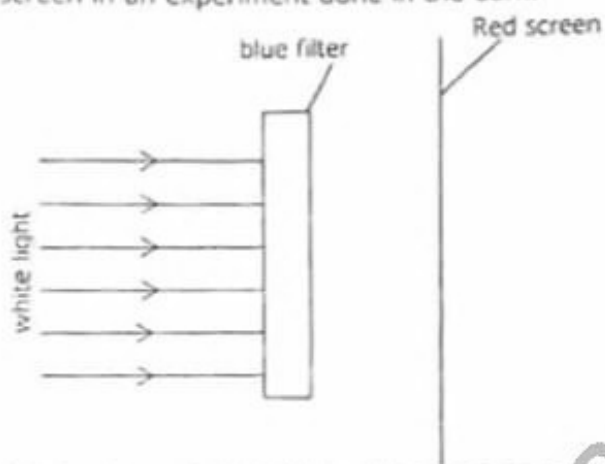
- 30 Which of the following equations is a double displacement reaction?
- A Copper + Oxygen \longrightarrow Copper II Oxide
- B Zinc + Copper Sulphate \longrightarrow Zinc Sulphate + Copper
- C Calcium Carbonate \longrightarrow Calcium Oxide + Carbon Dioxide
- D Sodium Chloride + Silver Nitrate \longrightarrow Sodium Nitrate + Silver Chloride
- 31 Which statement below best explains the law of conservation of matter?
The total mass of substances before a chemical reaction is ...
- A different from the mass of substances produced.
- B equal to the mass of substances produced.
- C less than the mass of substances produced.
- D more than the mass of substances produced.
- 32 The diagram below shows an object placed beyond 2F in front of a converging lens.



Which of the following shows the correct position and nature of the image formed?

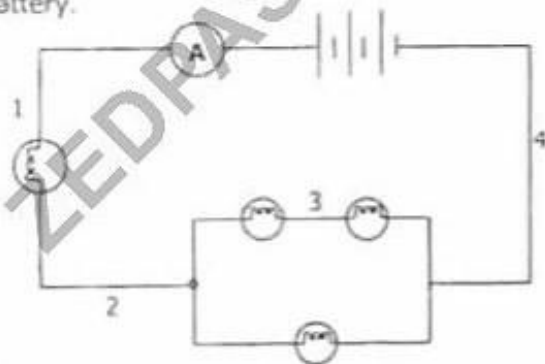
- | | Image Position | Nature of Image |
|---|--|----------------------------------|
| A | At 2F on the right | Same size, real and upside down |
| B | Between F and 2F on the right | Diminished, real and upside down |
| C | Between optical centre 0 and F on the left | Magnified, virtual and upright |
| D | Beyond 2F on the right | Magnified, real and upside down |

- 33 The diagram below shows white light passing through a blue filter onto a red screen in an experiment done in the dark.



What colour of white light will be seen on the screen?

- A Red
 - B Blue
 - C White
 - D None
- 34 The diagram below shows four identical bulbs and an ammeter connected to a battery.



If the ammeter reads 2A, which of the labelled points 1, 2, 3 or 4 in the circuit is the only place where the current is less than 2A?

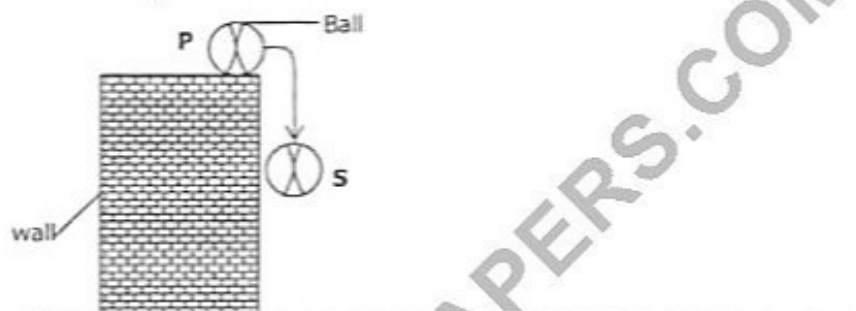
- A 1
- B 2
- C 3
- D 4



- 35 The ice will break if a pressure on it is greater than 1N/m^2 . If four objects are placed on the ice, which of the following will break the ice?

	Weight of Object (N)	Base area of object (m^2)
A	20	27
B	30	25
C	40	50
D	50	56

- 36 The diagram below shows a ball as it falls from the top of a wall.



What forms of energy does the ball have at points P and S?

- | | | |
|---|-----------|-----------|
| | P | S |
| A | Potential | Kinetic |
| B | Kinetic | Chemical |
| C | Kinetic | Potential |
| D | Chemical | Kinetic |
37. Which of the following ways of communication disadvantages listeners from referring back immediately?
- A Radio
B Email
C Facsimile
D Tape recorder
- 38 Which of the following devices is **not** used in long distance communication?
- A Cell phone
B Traffic lights
C Land phone
D Laptop computer



- 39 Which of the following makes an electrical signal from a tape recorder stronger?
- A Aerial
 - B Amplifier
 - C Microphone
 - D Satellite
- 40 Which one of the following is not necessary during the transmission of a live football match relayed from the United Kingdom to Zambia?
- A Satellite
 - B Microphone
 - C Video camera
 - D Tape

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