

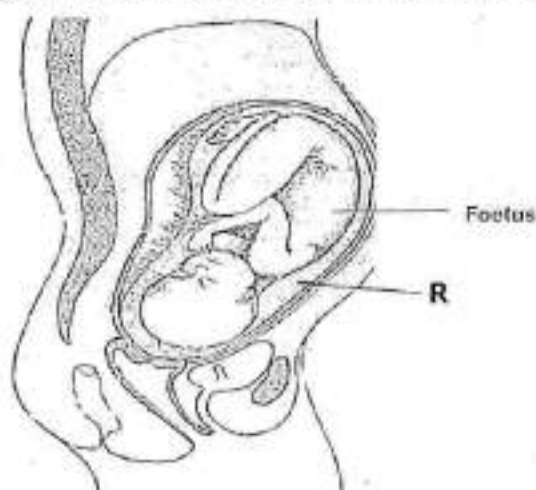
- 1 Which of the following indicates the correct sequence of travel of an unfertilised ovum from the beginning until it leaves the female body?

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.



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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?

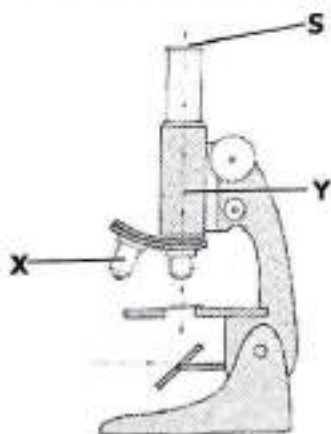
- 6 The disease that occurs in children because of lack of protein in the diet is ...

- 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	Eye piece	Objective lens	Body tube
B	Body tube	Eye piece	Rotating nose piece
C	Eye piece lens	Rotating nose tube	Body tube
D	Rotating nose piece	Objective lens	Eye piece

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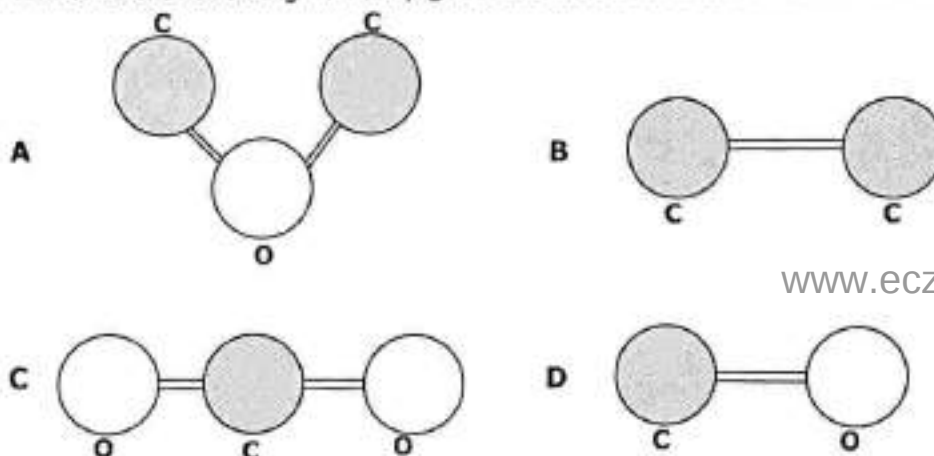
- 9 The process in plants that makes it possible for water and mineral salts to move from the roots to the rest of the plant is ...

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?



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

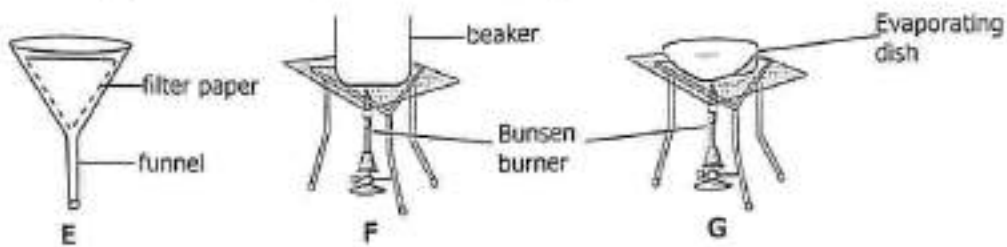


What change of state is shown at point Z?

A Boiling
B Condensation
C Evaporation
D Melting

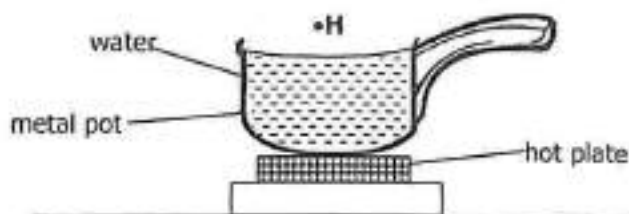


- 13 The diagrams below show three sets of apparatus labelled E, F and G.



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

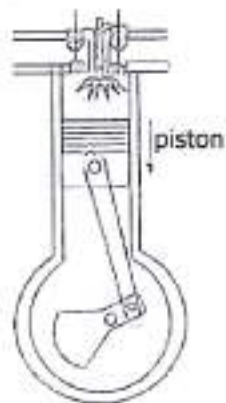
- A E only
 B G only
 C F and G
 D E and G
- 14 Calculate the weight of a 15kg mass on the earth's surface. (Take the gravitational force to be 10N/kg)
- A 1.5N
 B 5.0N
 C 150.0N
 D 1 500.0N
- 15 A beaker containing 40cm³ of liquid F weighed 90g. What is the density of liquid F if the mass of the beaker 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?

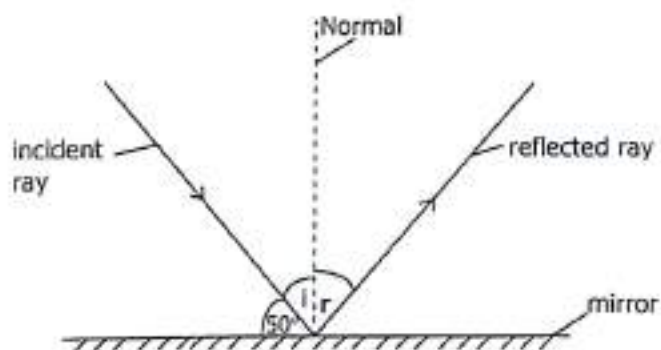
	From hot plate to the pot	Through the water	From the surface of water to point H
A	Conduction	Convection	Convection
B	Conduction	Radiation	Convection
C	Convection	Convection	Conduction
D	Convection	Conduction	Radiation

- 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.



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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.

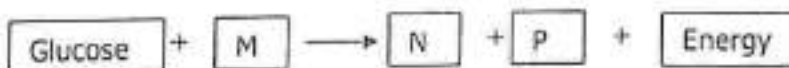
Gas	Percentage of gas in air
I	0.03
J	0.97
K	21
L	78

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

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- 21 Study the incomplete word equation on tissue respiration.



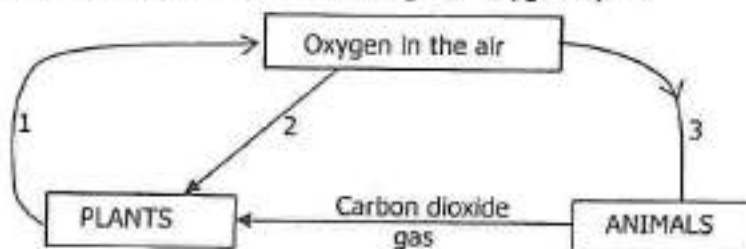
What substances are M, N and P to complete the equation?

- | | 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.

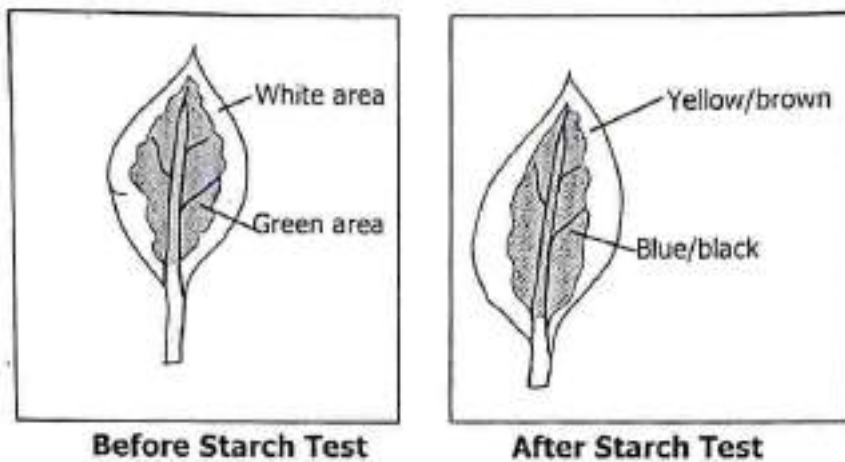


Identify processes 1, 2 and 3.

- | | 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

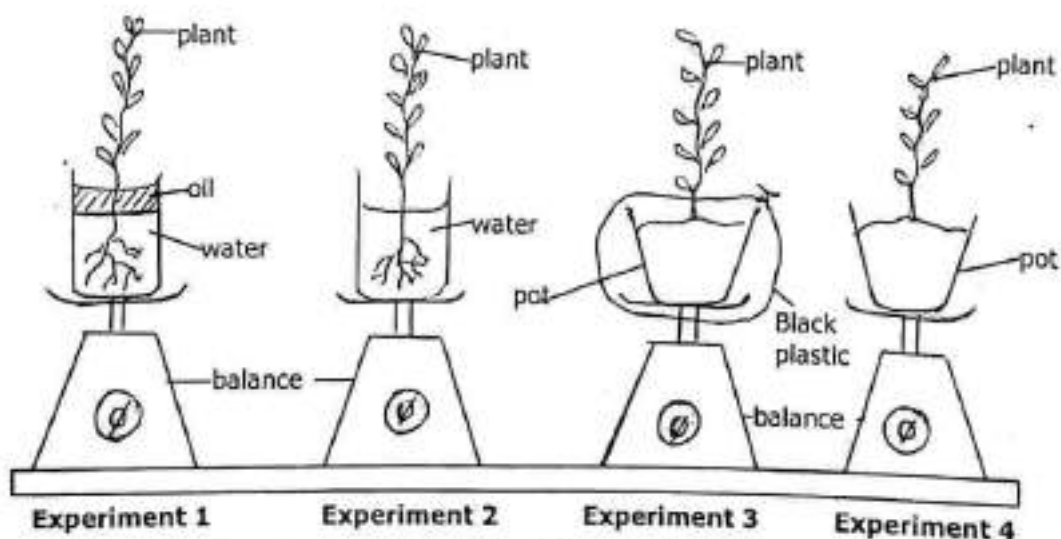


- 28 The diagrams below show a variegated leaf before and after it was tested for starch.



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. www.eczpastpapers.com



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

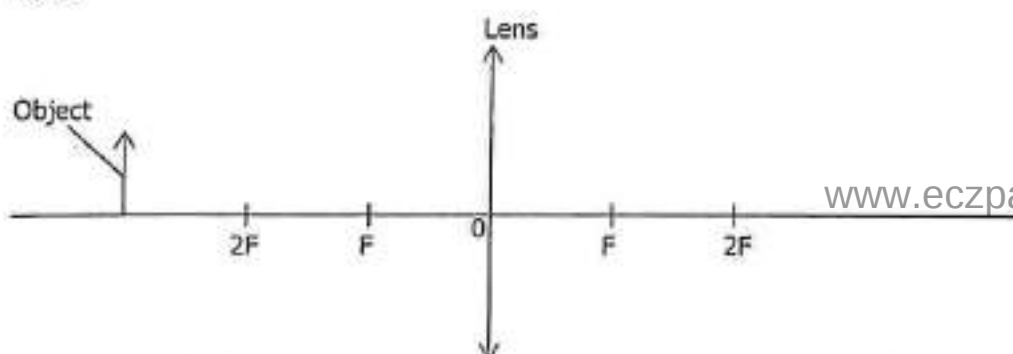
- A 1 and 3
- B 3 and 4
- C 1 and 2
- D 2 and 4

- 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.

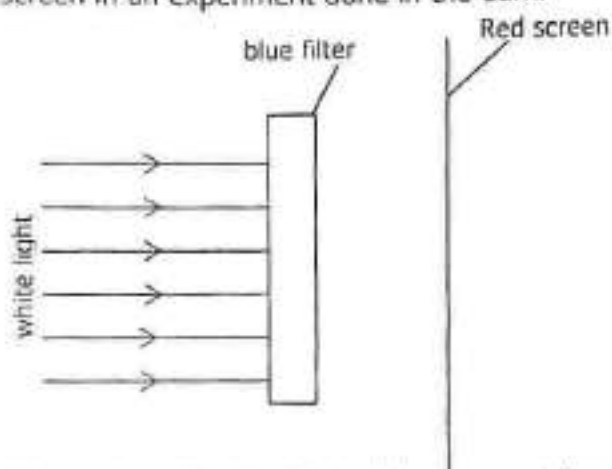
- 32 The diagram below shows an object placed beyond 2F in front of a converging lens.



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 O and F on the left	Magnified, virtual and upright
D	Beyond 2F on the right	Magnified, real and upside down

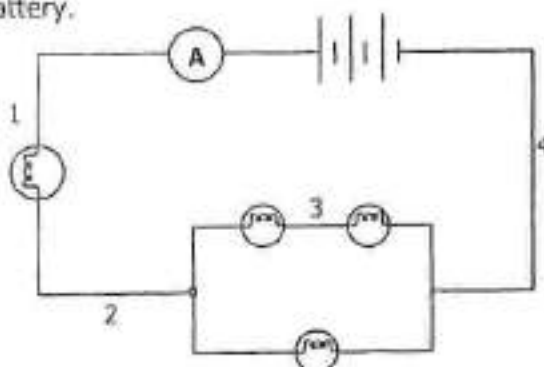
- 33 The diagram below shows white light passing through a blue filter onto a red screen in an experiment done in the dark.



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.

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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?

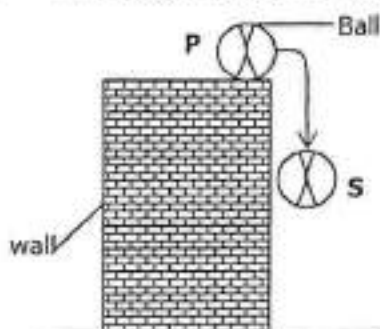
- A 1
- B 2
- C 3
- D 4



- 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

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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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