

Centre Number	Candidate Number	Name
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CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**PHYSICAL SCIENCE**

**0652/01**

Paper 1 Multiple Choice

May/June 2003

**45 minutes**

Additional Materials: Multiple Choice Answer Sheet  
Soft clean eraser  
Soft pencil (type B or HB is recommended)

**READ THESE INSTRUCTIONS FIRST**

Write in soft pencil.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has been done for you.

There are **forty** questions on this paper. Answer **all** questions. For each question there are four possible answers **A, B, C, and D**.

Choose the **one** you consider correct and record your choice in **soft pencil** on the separate answer sheet.

**Read the instructions on the Answer Sheet very carefully.**

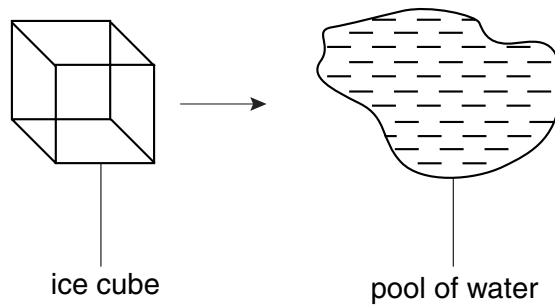
Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

Any rough working should be done in this booklet.

A copy of the Periodic Table is printed on page 20.

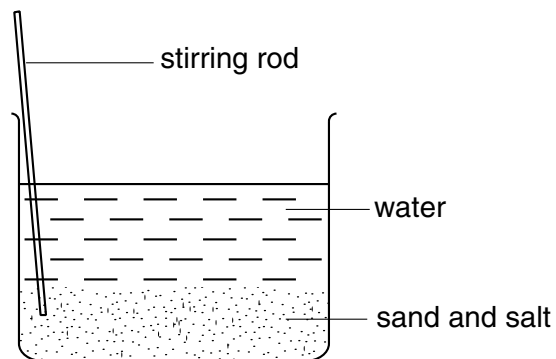
2

- 1 An ice cube is left on a warm table.



What happens to the molecules of water in the ice cube?

- A The molecules condense.
  - B The molecules dissolve.
  - C The molecules gain energy.
  - D The molecules lose energy.
- 2 The diagram shows the first step in separating sand from salt.



What is the next step?

- A evaporate the water
- B filter the mixture
- C freeze the mixture
- D make a chromatogram

- 3 The table shows what some students wrote about the electrical charges on the particles in an atom.

Which student was correct?

student	proton	electron	neutron
<b>A</b>	+1	0	-1
<b>B</b>	+1	-1	0
<b>C</b>	0	+1	-1
<b>D</b>	-1	+1	0

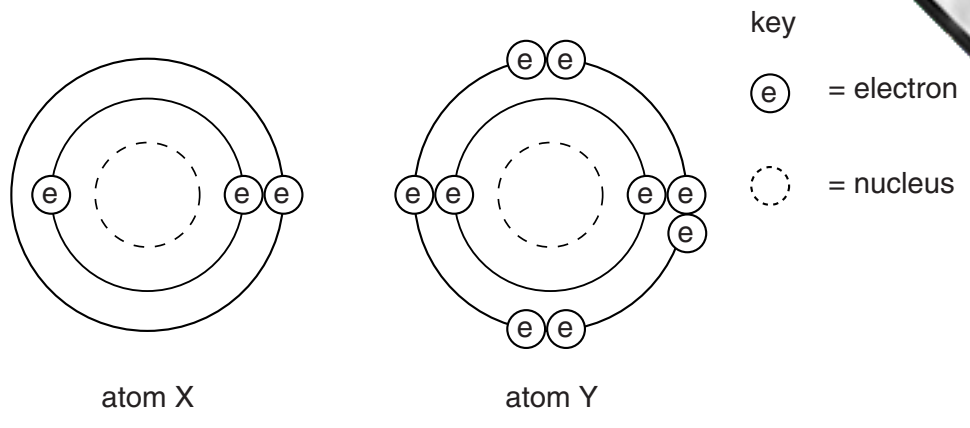
- 4 The table shows the nucleon numbers and proton numbers of the atoms of some elements.

nucleon number	35	37	40	39	40
proton number	17	17	18	19	19

How many are atoms of non-metallic elements?

- A** 1                      **B** 2                      **C** 3                      **D** 4
- 5 An ionic compound is likely to
- A** be a gas.
  - B** be coloured.
  - C** conduct electricity when molten.
  - D** react vigorously with water.

6 The electronic structures of atoms X and Y are shown.

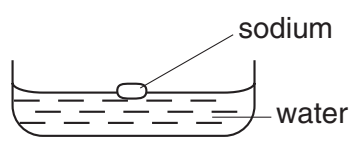


X and Y react to form an ionic compound.

What is the formula of the compound?

- A XY
- B XY<sub>3</sub>
- C XY<sub>7</sub>
- D X<sub>7</sub>Y

7 When sodium reacts with water, a solution and a gas are produced.



The solution is tested with litmus paper and the gas is tested with a splint.

What happens to the litmus paper and to the splint?

	litmus paper	splint
<b>A</b>	blue to red	glowing splint relights
<b>B</b>	blue to red	lighted splint 'pops'
<b>C</b>	red to blue	glowing splint relights
<b>D</b>	red to blue	lighted splint 'pops'

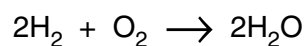
- 8 Which of hydrogen and uranium form oxides when used as a source of energy?

	hydrogen	uranium
<b>A</b>	✓	✓
<b>B</b>	✓	✗
<b>C</b>	✗	✓
<b>D</b>	✗	✗

- 9 A piece of zinc is placed in dilute sulphuric acid.

Which change slows down the speed of reaction?

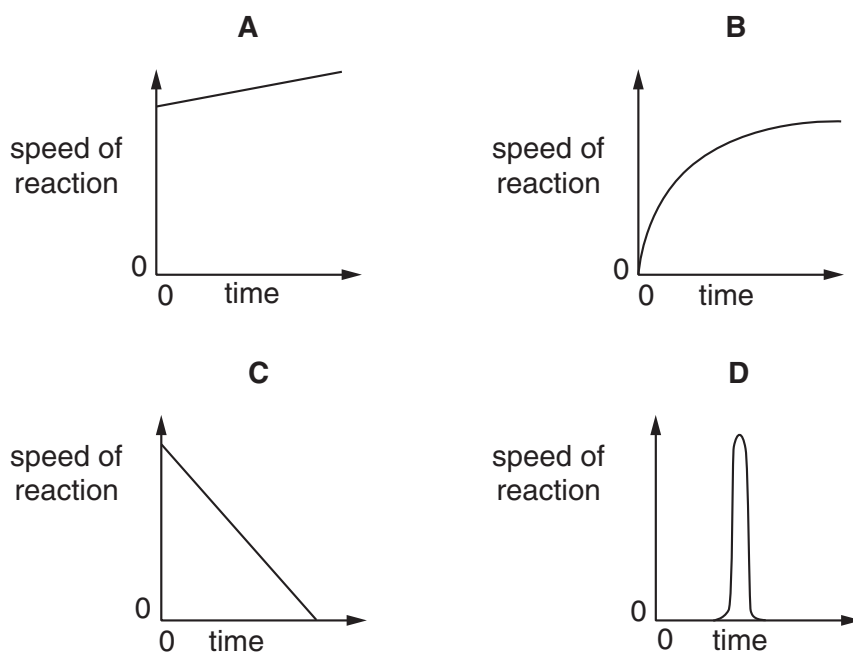
- A** adding a catalyst  
**B** adding water  
**C** heating the acid  
**D** powdering the zinc
- 10 A spark can cause a mixture of hydrogen and air to explode.



Which two terms apply to this explosion of hydrogen?

	the reaction is	the hydrogen is
<b>A</b>	endothermic	oxidised
<b>B</b>	endothermic	reduced
<b>C</b>	exothermic	oxidised
<b>D</b>	exothermic	reduced

11 Which graph could represent the explosive combustion of methane?



12 Which of the following are properties of the oxides of most non-metals?

	property 1	property 2
<b>A</b>	acidic	covalent
<b>B</b>	acidic	ionic
<b>C</b>	basic	covalent
<b>D</b>	basic	ionic

13 Aqueous ammonia is added to solutions containing the ions of four metals.

aluminium      copper(II)      iron(III)      zinc

Which of these ions give a coloured precipitate?

	aluminium	copper(II)	iron(III)	zinc
<b>A</b>	✓	✗	✗	✓
<b>B</b>	✓	✗	✓	✗
<b>C</b>	✗	✓	✗	✓
<b>D</b>	✗	✓	✓	✗

14 Which of the following is the pH value of an alkaline solution?

- A 3                      B 5                      C 7                      D 9

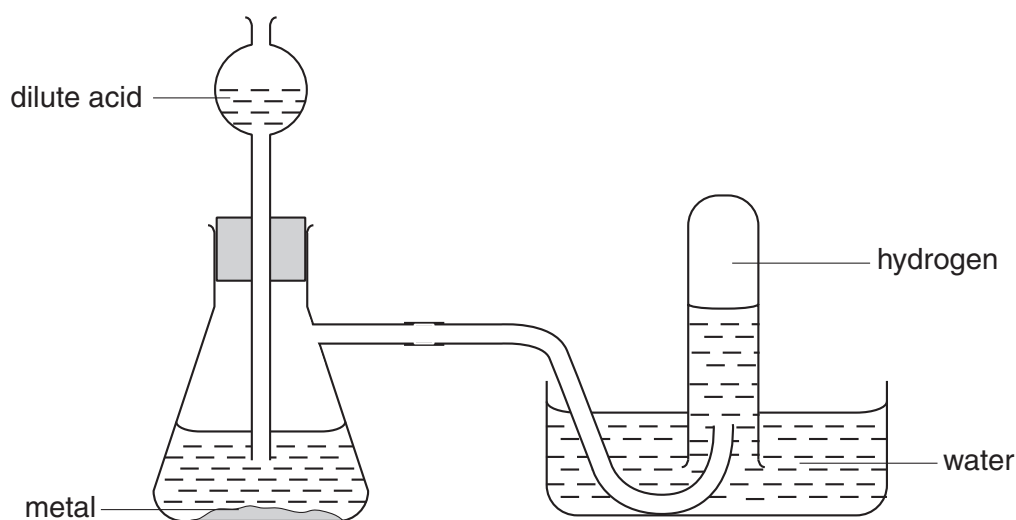
15 An element X has the two properties listed.

- 1 It acts as a catalyst.
- 2 It forms colourless ions.

Which of these properties suggest that X is a transition element?

	property 1	property 2
<b>A</b>	✓	✓
<b>B</b>	✓	✗
<b>C</b>	✗	✓
<b>D</b>	✗	✗

16 The diagram shows a method of making hydrogen.



Which acid and metal would be suitable and safe for this method?

	metal	acid
<b>A</b>	copper	hydrochloric acid
<b>B</b>	copper	sulphuric acid
<b>C</b>	sodium	hydrochloric acid
<b>D</b>	zinc	sulphuric acid

17 Rust can be removed from pieces of iron by using hydrochloric acid.

This is possible because rust is

- A an alloy.
- B a metal oxide.
- C a red-brown solid.
- D soluble in water.

18 In an experiment, incomplete combustion of ethanol occurs.

Which gases may be present in the products?

- A carbon dioxide, carbon monoxide and hydrogen
- B carbon dioxide, carbon monoxide and water
- C carbon dioxide, hydrogen and water
- D carbon monoxide, hydrogen and water

19 Methanol and ethanol are both liquids.

They both burn with a blue flame to produce carbon dioxide and water.

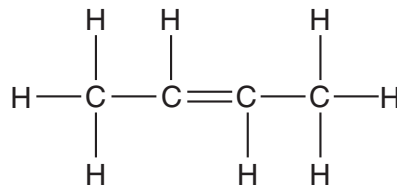
Both contain the functional group —O—H.

Which of the underlined words shows that methanol and ethanol are members of the same homologous series?

- A both burn
- B both liquids
- C both contain the functional group —O—H
- D produce carbon dioxide and water



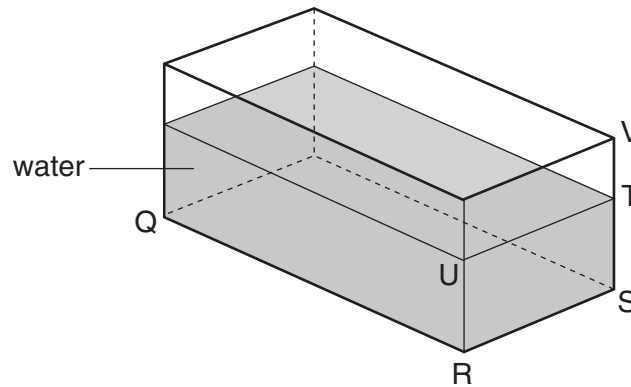
20 Compound X has the structure shown.



Which reactions does X show?

	addition of hydrogen	addition polymerisation
<b>A</b>	✓	✓
<b>B</b>	✓	✗
<b>C</b>	✗	✓
<b>D</b>	✗	✗

21 A glass tank contains some water.



The length QR and the width RS of the tank are known.

What other distance needs to be measured in order to be able to calculate the volume of the water?

**A** ST

**B** SV

**C** TU

**D** TV

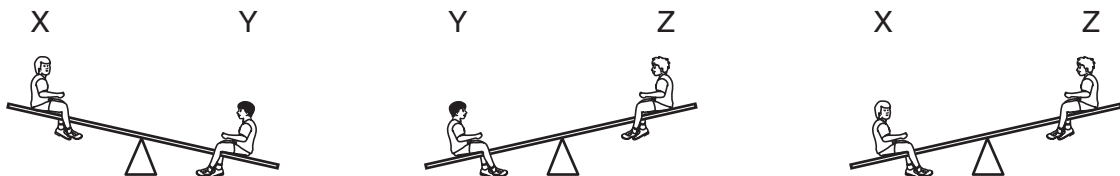
22 A tunnel has a length of 50 km. A car takes 20 min to travel between the two ends of the tunnel.  
What is the average speed of the car?

- A 2.5 km/h
- B 16.6 km/h
- C 150 km/h
- D 1000 km/h

23 Which statement is correct?

- A Mass is a force, measured in kilograms.
- B Mass is a force, measured in newtons.
- C Weight is a force, measured in kilograms.
- D Weight is a force, measured in newtons.

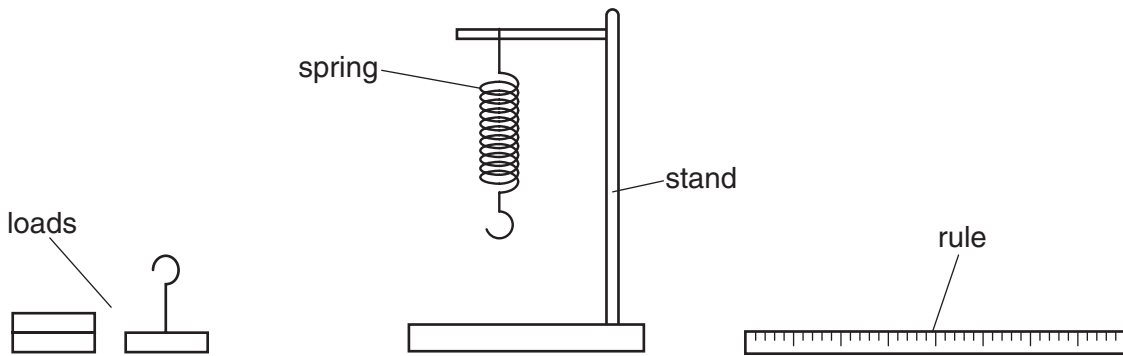
24 Three children, X, Y and Z, are using a see-saw to compare their weights.



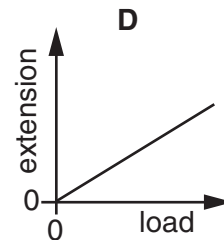
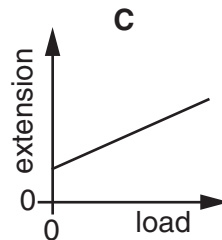
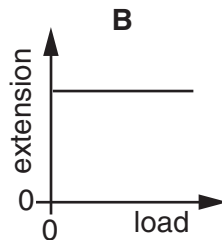
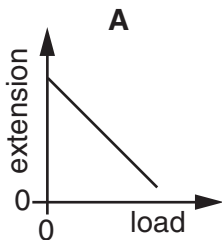
Which line in the table shows the correct order of the children's weights?

	heaviest	←————→	lightest
<b>A</b>	X	Y	Z
<b>B</b>	X	Z	Y
<b>C</b>	Y	X	Z
<b>D</b>	Y	Z	X

25 A spring is suspended from a stand. Loads are added and the extensions are measured.



Which graph shows the result of plotting extension against load?



26 What is the source of the energy converted by a hydro-electric power station?

- A hot rocks
- B falling water
- C oil
- D waves

27 A labourer on a building site lifts heavy concrete blocks onto a lorry. Lighter blocks are now lifted the same distance in the same time.

What happens to the work done in lifting each block and the power exerted by the labourer?

	work done in lifting each block	power exerted by labourer
<b>A</b>	decreases	decreases
<b>B</b>	decreases	remains the same
<b>C</b>	increases	increases
<b>D</b>	remains the same	increases

- 28 A person holds a glass beaker in one hand and fills it quickly with hot water. It takes a few seconds before his hand starts to feel the heat.

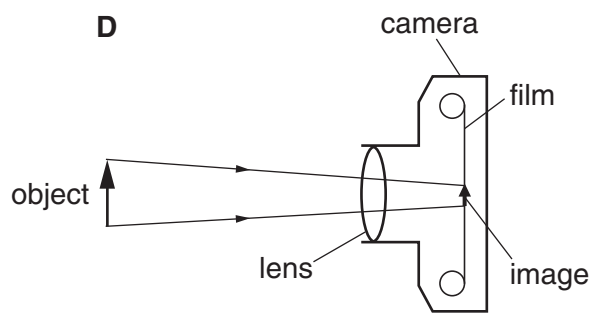
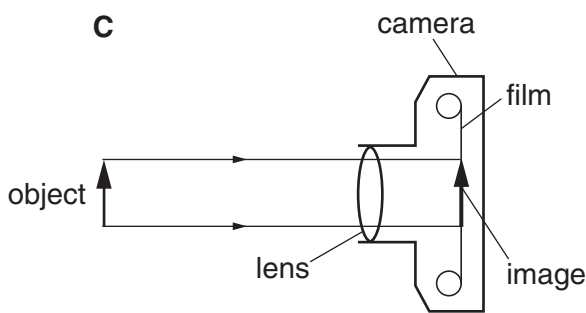
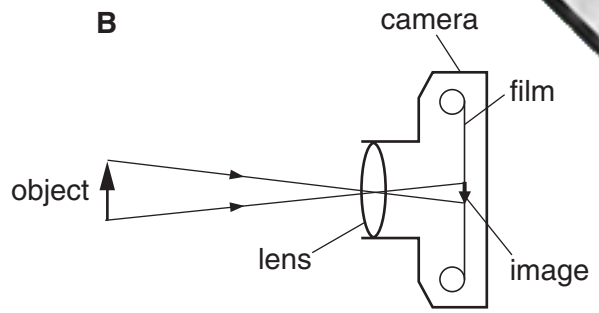
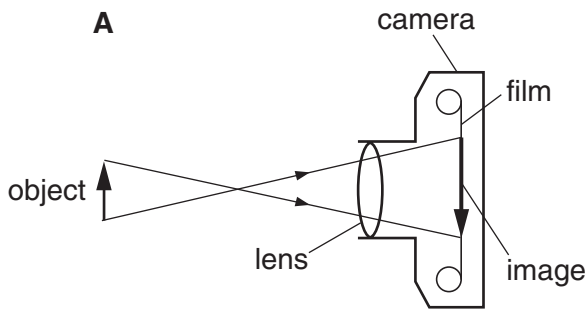
Why is there this delay?

- A Glass is a poor conductor of heat.
  - B Glass is a good conductor of heat.
  - C Water is a poor conductor of heat.
  - D Water is a good conductor of heat.
- 29 What causes refraction when light travels from air into glass?
- A The amplitude of the light waves changes.
  - B The colour of the light changes.
  - C The frequency of the light waves changes.
  - D The speed of the light changes.
- 30 A woman tunes her radio to a station broadcasting on 200 m.

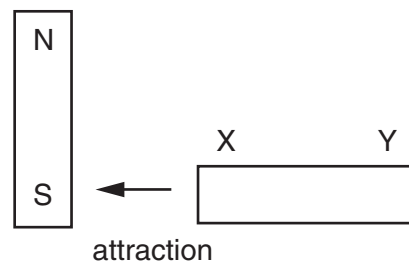
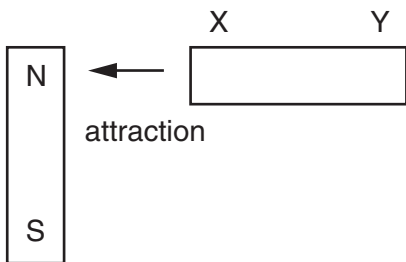
What does the 200 m tell her about the radio wave?

- A its amplitude
- B its frequency
- C its speed
- D its wavelength

31 Which diagram correctly shows rays passing through a camera lens?



32 A metal rod XY is placed near a magnet. End X is attracted when it is placed near to the north pole of the magnet, and also when it is placed near to the south pole.



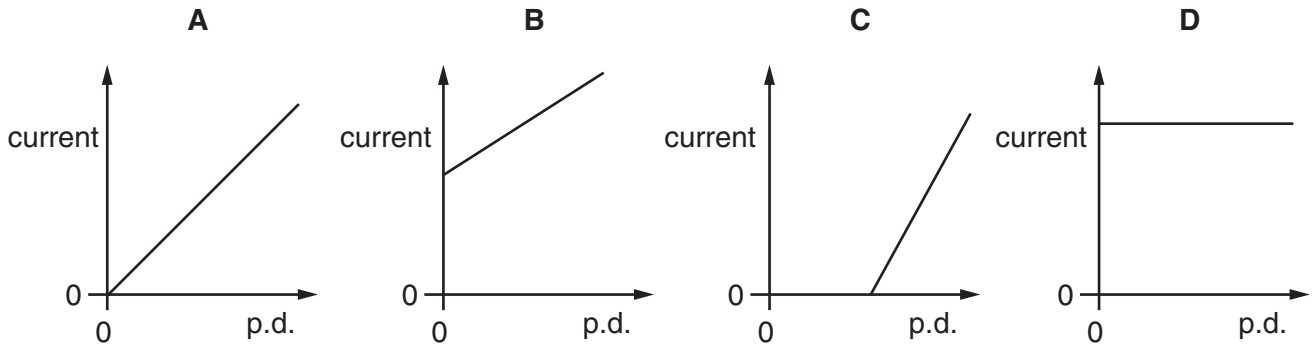
How does end Y behave when it is placed, in turn, near to the two poles of the magnet?

	Y near north pole	Y near south pole
<b>A</b>	attraction	attraction
<b>B</b>	attraction	repulsion
<b>C</b>	repulsion	attraction
<b>D</b>	repulsion	repulsion

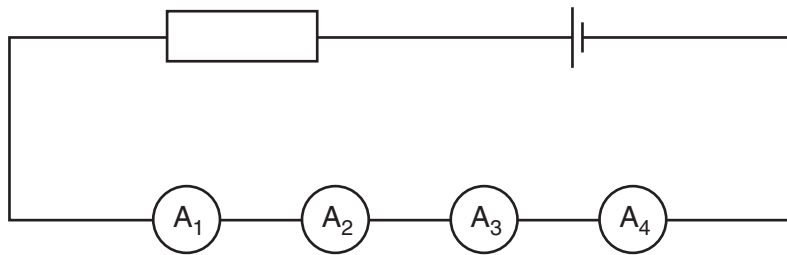
33 When the potential difference (p.d.) across a piece of resistance wire is changed, the current through the wire also changes.

The temperature of the wire is kept the same.

Which graph shows how the p.d. and current are related?



34 Two faulty ammeters and two perfect ammeters are connected in series in the circuit shown.



The readings on the ammeters are

A<sub>1</sub> 2.9 A

A<sub>2</sub> 3.1 A

A<sub>3</sub> 3.1 A

A<sub>4</sub> 3.3 A

Which two ammeters are faulty?

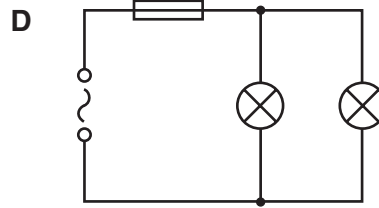
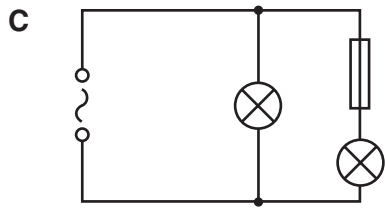
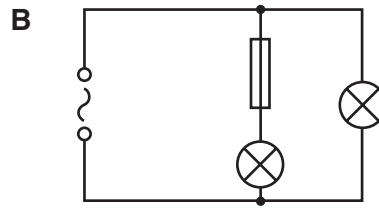
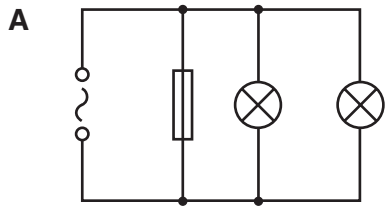
- A** A<sub>1</sub> and A<sub>2</sub>      **B** A<sub>1</sub> and A<sub>4</sub>      **C** A<sub>2</sub> and A<sub>3</sub>      **D** A<sub>3</sub> and A<sub>4</sub>

35 Which electrical component would not normally be found in a battery-operated torch (flashlight)?



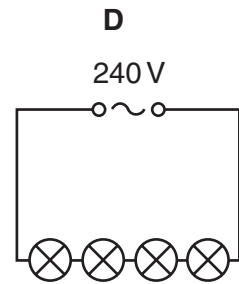
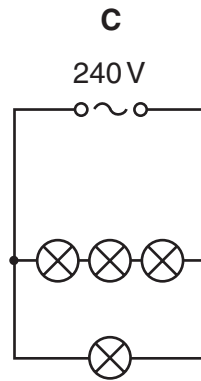
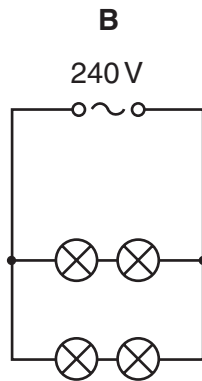
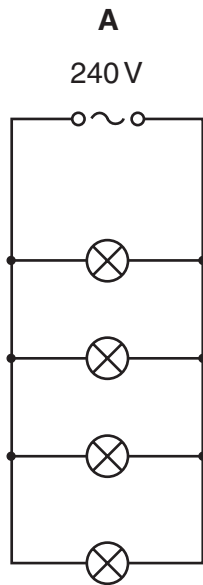
36 A student makes four circuits.

In which circuit are both lamps protected by the fuse?

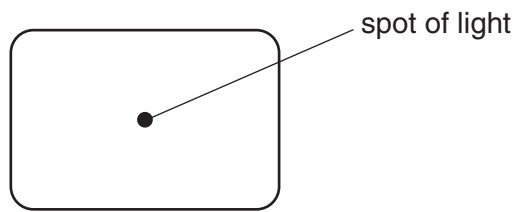


37 Four lamps are labelled '60 W 240 V'.

In which circuit are the lamps connected so that they all work at normal brightness?

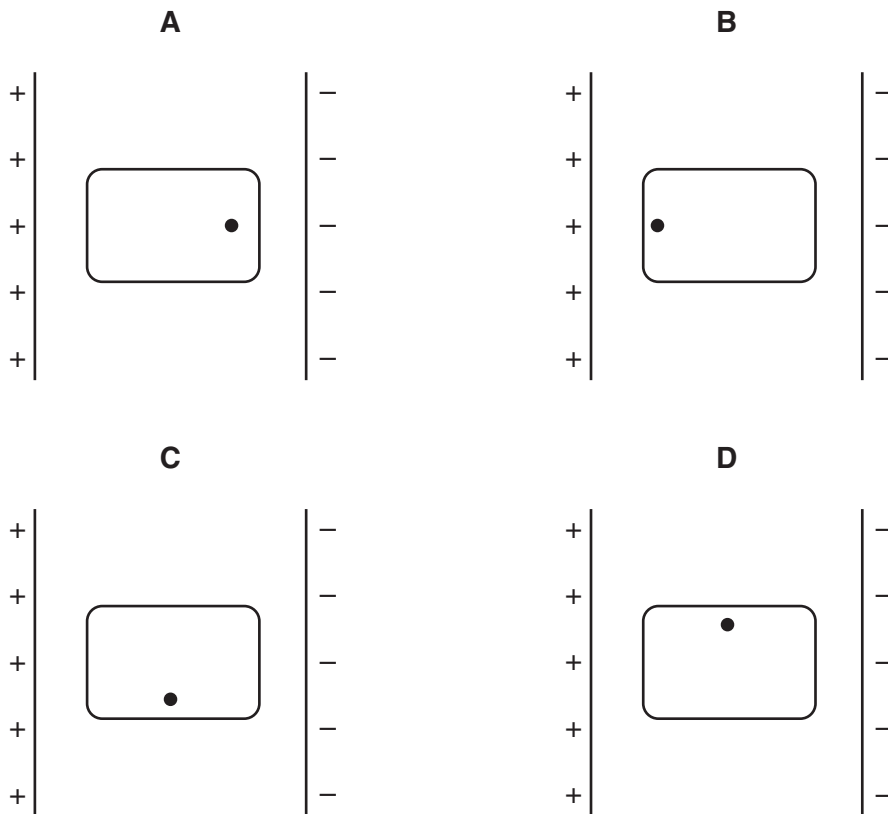


38 The diagram below shows the screen of a cathode-ray oscilloscope tube.



The tube is placed between a pair of charged plates.

Which diagram shows the new position of the spot?



39 Which type of radiation can be stopped by a sheet of paper?

- A  $\alpha$ -particles
- B  $\beta$ -particles
- C  $\gamma$ -rays
- D X-rays



40 The half-life of a radioactive substance is 5 hours. A sample is tested and found to contain 1.92 g of the substance.

How much of the substance was present in the sample 20 hours before the sample was tested?

- A 0.03 g
- B 0.12 g
- C 1.92 g
- D 7.68 g





**DATA SHEET**  
**The Periodic Table of the Elements**  
**Group**

I	II	III	IV	V	VI	VII	0								
7 <b>Li</b> Lithium	9 <b>Be</b> Beryllium	11 <b>B</b> Boron	12 <b>C</b> Carbon	14 <b>N</b> Nitrogen	16 <b>O</b> Oxygen	19 <b>F</b> Fluorine	20 <b>Ne</b> Neon								
23 <b>Na</b> Sodium	24 <b>Mg</b> Magnesium	27 <b>Al</b> Aluminium	28 <b>Si</b> Silicon	31 <b>P</b> Phosphorus	32 <b>S</b> Sulphur	35.5 <b>Cl</b> Chlorine	40 <b>Ar</b> Argon								
39 <b>K</b> Potassium	40 <b>Ca</b> Calcium	45 <b>Sc</b> Scandium	48 <b>Ti</b> Titanium	51 <b>V</b> Vanadium	52 <b>Cr</b> Chromium	55 <b>Mn</b> Manganese	56 <b>Fe</b> Iron								
85 <b>Rb</b> Rubidium	88 <b>Sr</b> Strontium	89 <b>Y</b> Yttrium	91 <b>Zr</b> Zirconium	93 <b>Nb</b> Niobium	96 <b>Mo</b> Molybdenum	101 <b>Ru</b> Ruthenium	106 <b>Pd</b> Palladium								
133 <b>Cs</b> Caesium	137 <b>Ba</b> Barium	139 <b>La</b> Lanthanum	178 <b>Hf</b> Hafnium	181 <b>Ta</b> Tantalum	184 <b>W</b> Tungsten	190 <b>Os</b> Osmium	195 <b>Pt</b> Platinum								
226 <b>Ra</b> Radium	227 <b>Ac</b> Actinium	204 <b>Tl</b> Thallium	207 <b>Pb</b> Lead	209 <b>Bi</b> Bismuth	210 <b>Po</b> Polonium	210 <b>At</b> Astatine	210 <b>Rn</b> Radon								
<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 12.5%; text-align: center;">1 <b>H</b> Hydrogen</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> </table>								1 <b>H</b> Hydrogen							
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