Water

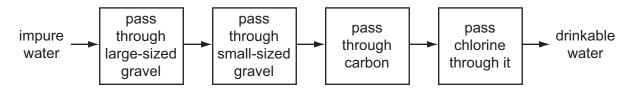
Question Paper

Level	O Level	
Subject	Chemistry	
Exam Board	Cambridge International Examinations	
Торіс	Atmosphere and Environment	
Sub-Topic	Water	
Booklet	Question Paper	

Time Allowed:	16 minutes
Score:	/13
Percentage:	/100

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- 1 Which pollutant causes eutrophication in rivers?
 - A acid rain
 - B carbon monoxide
 - C fertiliser
 - **D** metal compounds
- 2 The flow chart shows how impure water can be treated to produce drinkable water.



What is not removed from the water by this process?

- A clay particles
- B microbes
- **C** nitrates
- D odours

3 Which of these processes can be used to purify water containing insoluble impurities?

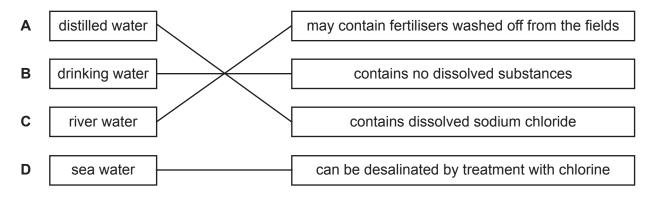
- 1 chlorination
- 2 desalination
- 3 distillation
- 4 filtration
- **A** 1 an **B** 2 and 3 **C** 3 and 4 **D** 4 only
- 4 Which method of water purification can be used to obtain drinkable water from seawater?
 - A chlorination
 - B desalination
 - **C** filtration
 - D sedimentation

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- 5 The following stages happen during eutrophication.
 - 1 increase in growth of algae
 - 2 increase in nitrate concentration
 - 3 death of aquatic plants
 - 4 decrease in dissolved oxygen

In which order do these stages occur?

- $\mathbf{A} \quad \mathbf{1} \to \mathbf{2} \to \mathbf{3} \to \mathbf{4}$
- **B** $1 \rightarrow 2 \rightarrow 4 \rightarrow 3$
- $\textbf{C} \quad 2 \rightarrow 1 \rightarrow 3 \rightarrow 4$
- $\textbf{D} \quad 2 \rightarrow 1 \rightarrow 4 \rightarrow 3$
- 6 In the purification of water, what is the purpose of carbon?
 - A to desalinate
 - B to disinfect
 - **C** to remove odours
 - D to remove solids
- 7 Which type of water in the left hand column is linked correctly to a statement in the right hand column?



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- 8 Which gas, present in pond water, decreases in concentration during eutrophication?
 - A carbon dioxide
 - B methane
 - **C** nitrogen
 - D oxygen
- 9 The table shows pollutants which cause eutrophication, sources of these pollutants and a problem that eutrophication causes.

Which entry in the table is correct?

	pollutant	source	problem
Α	nitrates	detergents	oxygen depletion
в	nitrates	fertilisers	excess oxygen
с	phosphates	detergents	oxygen depletion
D	phosphates	fertilisers	excess oxygen

- 10 Which pollutant increases the growth of algae in rivers and streams?
 - A chlorine
 - B heavy metal ions
 - **C** nitrate ions
 - D sulphur dioxide
- 11 The water in a lake contains the following dissolved substances.
 - mineral salts
 - nitrates
 - oxygen
 - phosphates
 - sewage

How many of these substances can cause eutrophication?

A 1 B 2 C 3 D 4

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- 12 Why is carbon used in the purification of drinking water?
 - A disinfects the water
 - B filters out solids
 - **C** removes tastes and odours from the water
 - D desalinates the water
- 13 The water in a lake showed signs of eutrophication.

What could be the cause of this?

- A increasing the amount of dissolved fertiliser
- **B** increasing the amount of dissolved oxygen
- **C** decreasing the amount of dissolved mineral salts
- D decreasing the number of bacteria