

Centre :

Test Series : 04 NOVEMBER 2004 SERIES D

Module : 346021 AQUEOUS AND ORGANIC CHEMISTRY

**Candidate Number :****UCI :****Candidate Name :**

*For completion by the Examination Invigilator. Please fill this oval if the candidate is absent:*

## FOUNDATION TIER

▶ Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully. ◀

Questions ONE to FIVE: Choose **one** answer for each of the parts 1 to 4.

QUESTION ONE	1	2	3	4
carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
carbon monoxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
hydrogen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
oxygen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO	1	2	3	4
chlorination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
condensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
evaporation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
filtration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE	1	2	3	4
ammonium nitrate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ethanol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
sodium carbonate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR	1	2	3	4
carbon dioxide is allowed to escape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ethanol is separated by fractional distill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
sugar and yeast are mixed with water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the mixture warmed above room temperature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE	1	2	3	4
strong acid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
strong alkali	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
weak acid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
weak alkali	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questions SIX and SEVEN: Choose **two** answers for each question.

QUESTION SIX	
soft water contains dissolved calcium compounds	<input type="radio"/>
water containing dissolved nitrate ions can be harmful to babies	<input type="radio"/>
water in lakes is condensed by heat from the Sun	<input type="radio"/>
water is a solvent for most covalent compounds	<input type="radio"/>
when water vapour in the atmosphere condenses, clouds are formed	<input type="radio"/>

QUESTION SEVEN	
hydrochloric acid is acidic because it contains $H^+(aq)$ ions	<input type="radio"/>
hydrochloric acid contains $H^-$ ions	<input type="radio"/>
sodium hydroxide in aqueous solution provides $OH^-(aq)$ ions	<input type="radio"/>
sodium hydroxide is partially ionised in water	<input type="radio"/>
the $OH^-(aq)$ ion is a proton	<input type="radio"/>

Questions EIGHT to TEN: Choose **one** answer for each of the parts 1 to 4.

QUESTION EIGHT				
	A	B	C	D
8.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION NINE				
	A	B	C	D
9.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TEN				
	A	B	C	D
10.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# HIGHER TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE and TWO: Choose **one** answer for each of the parts 1 to 4.

QUESTION ONE	1	2	3	4
strong acid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
strong alkali	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
weak acid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
weak alkali	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO	1	2	3	4
aspirin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
cholesterol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ethyl ethanoate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vegetable oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questions THREE and FOUR: Choose **two** answers for each question.

QUESTION THREE	
hydrochloric acid is acidic because it contains $H^+(aq)$ ions	<input type="radio"/>
hydrochloric acid contains $H^-$ ions	<input type="radio"/>
sodium hydroxide in aqueous solution provides $OH^-(aq)$ ions	<input type="radio"/>
sodium hydroxide is partially ionised in water	<input type="radio"/>
the $OH^-(aq)$ ion is a proton	<input type="radio"/>

QUESTION FOUR	
it burns to form carbon dioxide, hydrogen chloride and water	<input type="radio"/>
it cannot be remoulded after heating	<input type="radio"/>
it is a carboxylic acid	<input type="radio"/>
it is a thermosetting polymer	<input type="radio"/>
it is made from $CH_2=CHCl$	<input type="radio"/>

Questions FIVE to TEN: Choose **one** answer for each of the parts 1 to 4.

QUESTION FIVE	A	B	C	D
5.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SIX	A	B	C	D
6.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SEVEN	A	B	C	D
7.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION EIGHT	A	B	C	D
8.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION NINE	A	B	C	D
9.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TEN	A	B	C	D
10.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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