# ALCOHOLS & CARBOXYLIC ACIDS 2 MARK SCHEME

#### Q1.

Questions	Answers	Extra information	Marks
	CO <sub>2</sub>	note the order of these	1
	H <sub>2</sub> O	products must be correct	1
		wrong way round = 1 mark	
Total marks			2

### Q2.

Questions	Answers	Extra information	Marks
(a)	3		1
(b)	1		1
(c)	4		1
(d)	2		1
Total marks			4

#### Q3.

Questions	Answers	Extra information	Marks
(a)	2		1
(b)	2		1
(c)	3		1
(d)	2		1
Total marks			4

#### Q4.

Questions	Answers	Extra information	Marks
(a)	3		1
(b)	2		1
(c)	3		1
(d)	3		1
Total marks			4

## Q5.

Questions	Answers	Extra information	Marks
(a)(i)	fermentation		1
(ii)	cloudy		1
	there is carbon dioxide / CO <sub>2</sub>		1
(b)(i)		if no year(s) or incorrect year(s) indicated then max 1 correct year(s) only needs to be indicated once to gain full marks accept values in range 1987- 1992	
	(the amount of ethanol used) increases (from 1970) to 1989		1
	then it decreases from 1989 (to 2000)		1
(ii)	any one from: Brazil had more oilfields cost of crude oil had decreased cost of ethanol / sugar (cane) had increased demand for ethanol / sugar (cane) had increased availability of ethanol / sugar (cane) had decreased climate change affects growing sugar (cane)	accept availability of land to grow sugar (cane) had decreased	1
Total marks	S. S. T. T. Sagar (carre)		6

# Q6.

Marks	Extra information	Answers	Questions
1		fermentation	(i)
2		any <b>two</b> from:  • sugar cane/plants absorb carbon dioxide  • growing sugar cane/plants reduces global warming	(ii)
_		<ul><li>sugar cane/plants absorb carbon dioxide</li><li>growing sugar cane/plants</li></ul>	(,

	resource/sustainable	
(iii)	any <b>two</b> from:	2
	destruction of	
	habitats/forests	
	(to grow sugar cane/crops)	
	• fermentation releases carbon	
	dioxide	
	<ul> <li>production plants cause</li> </ul>	
	visual pollution	
	<ul> <li>pollution from the</li> </ul>	
	transportation of sugar cane /	
	Ethanol	
	<ul> <li>growing sugar cane / plants</li> </ul>	
	uses a lot of land	
Total marks		5

## Q7.

Questions	Answers	Extra information	Marks
	6		1
	oxygen		1
Total marks			2

# Q8.

Questions	Answers	Extra information	Marks
(i)	raw materials are renewable	accept does not use crude oil	1
(ii)	alcohol does not need to be	accept alcohol produced is	1
	distilled	pure	
	process is continuous		1
Total marks			3