

SEPARATION TECHNIQUES 3

MARK SCHEME

Q1.

Question	Answer	Extra information	Marks
(a)	2		1
(b)	4		1
(c)	2		1
(d)	4		1
Total marks			4

Q2.

Question	Answer	Extra information	Marks
(a)	4		1
(b)	3		1
(c)	2		1
(d)	2		1
Total marks			4

Q3.

Question	Answer	Extra information	Marks
(a)	4		1
(b)	1		1
(c)	3		1
(d)	2		1
Total marks			4

Q4.

Question	Answer	Extra information	Marks
A	1		
B	3		
C	2		
D	4		
Total marks			4

Q5.

Question	Answer	Extra information	Marks
(a)	3		1
(b)	2		1
Total marks			2

Q6.

Question	Answer	Extra information	Marks
	heat to vaporise (the crude oil) vapours condense at different temperatures	do not accept cracking / burning allow they have different boiling points	1 1 1
Total marks			3

Q7.

Question	Answer	Extra information	Marks
		students do not have to use the letters but the descriptions should be in logical order	
	W the water boils or steam is produced	allow water vapour rises	1
	X the oils / substances (in lavender) are vaporised / removed (by the steam)		1
	Y (the vapours are) condensed	allow turned back to liquid ignore cooled	1
	Z the water can be run off / tapped off leaving the oil(s)	allow oil floats on water or they form two layers	1
Total marks			4

Q8.

Question	Answer	Extra information	Marks
	(1) 5 3 (6) 4 2	all numbers in the correct order gains both marks any two numbers in the correct position gains 1 mark	2
Total marks			2

Q9.

Question	Answer	Extra information	Marks
(a)	1		1
(b)	1		1
(c)	3		1
(d)	1		1
Total marks			4