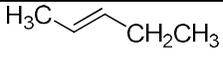
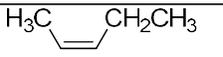
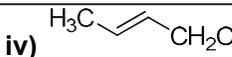
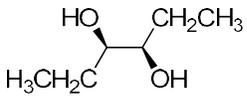
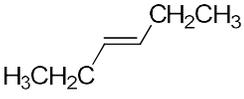
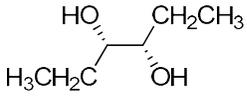
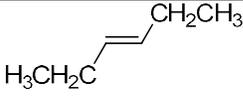
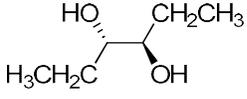
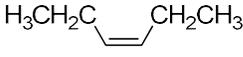


Question 5			Marks
	Answer		
(a)	i) +4                      ii) +8                      iii) +6		All correct = 1 2 correct = ½
(b)	Oxidation		1 mark
(c)	OsO <sub>4</sub>		1 mark
(d)	+6		1 mark
(e)	i) 	ii) 	All correct = 2 2 correct = ½
	iii) 	iv) 	
(f)	i)	3	1 mark
(f)	ii)	<b>DIOL</b> 	<b>ALKENE</b> 
			
			
		<b>(1 mark)</b> for each correct pair of diol and alkene to a maximum of <b>(3 marks)</b> if all correct. If meso compound is drawn twice do not penalise again if answer to f) i) is 4. No marks are awarded for correct diol with incorrect or missing alkene, or for alkene on its own.	3 marks
(g)	<b>5 8 9 12</b>		
	All correct <b>(2 marks)</b> ; (½ mark for each correct number). If more than four numbers are given then <b>(minus ½ mark)</b> for each additional answer above the first four down to a minimum of zero.		2 marks

Note: Tests are to be taken under controlled conditions. Students must not have access to the information contained in this marking scheme prior to, or during, the test.