58th INTERNATIONAL CHEMISTRY OLYMPIAD 2026

UK Round One

STUDENT ANSWER BOOKLET

In order to print your certificate, we need to store your name, school, and mark in a database for up to 12 months: these details are only viewable by your school and the RSC Chemistry Olympiad project team.

Your participation in the competition indicates that you are happy for us to do this.

Please PRINT details clearly using CAPITAL LETTERS:

First name .....

Surname (Family name) .....

Nationality .....

Date of birth .....

School name .....

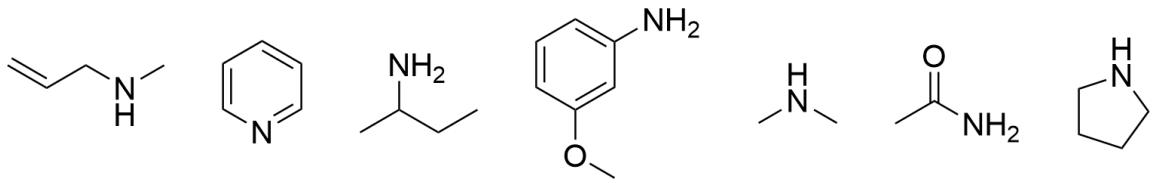
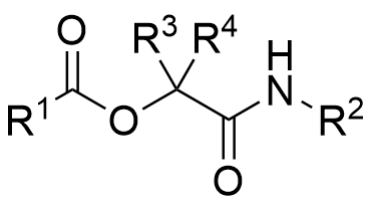
School Year (*e.g.*, Year 12, Scottish Higher) .....

Date paper taken ……/……/2026

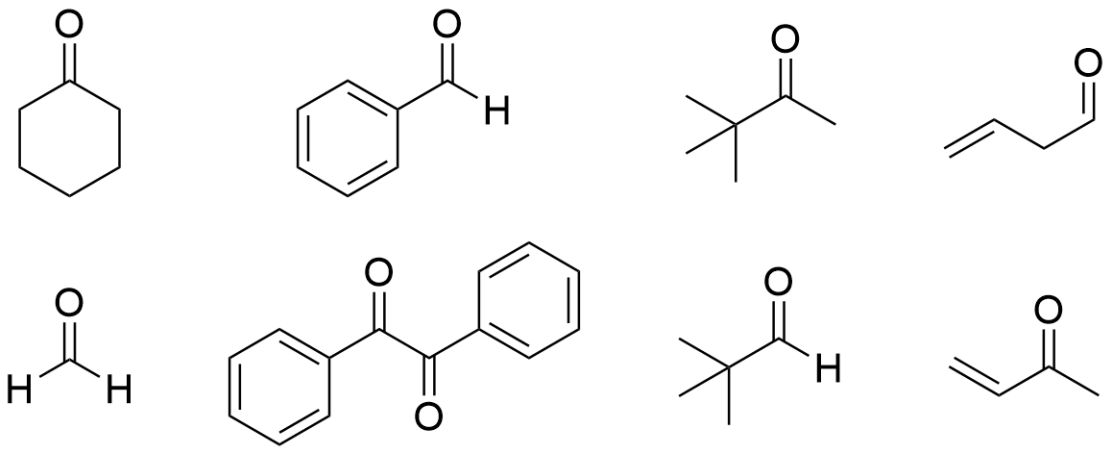
Question	1	2	3	4	5	Total
Marks Available	**8**	**18**	**19**	**26**	**13**	**84**
Marks Scored						

1.	This question is about pee in the pool			Mark
(a)	**Cl_2**	**HOCl**	**HCl**	
(b)				
(c)	(i)			
	(ii)			
(d)				
(e)				
(f)				
			Total out of 8	

2.	This question is about isocyanides	Mark
(a)		
(b)	(i)	
	(ii)	
(c)		
(d)	(i) **C**	
	(ii) **D**	

(e)		☐
(f)		☐ ☐
(g)		☐ ☐ ☐
(h)		☐
(i)		☐

(j)		
(k)		
	Total out of 18	

3.	This question is about compounds in henna tattoos	Mark
(a)		
(b)		
(c)		
(d)	(i) and (ii)	

(e)

electrophilic aromatic substitution	nucleophilic aromatic substitution	reduction	oxidation	hydrolysis

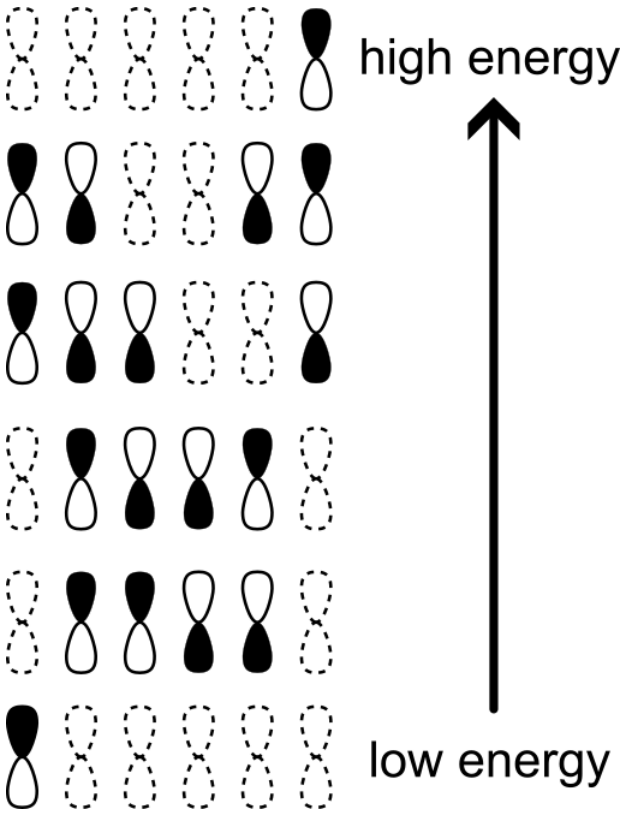
(f) (i)

(ii)

(g) (i)

(ii)

(h)		
(i)		
(j)		
	Total out of 19	

4.	This question is about rice, spice, and mice	Mark
(a)		
(b)	(i)	(ii)
(c)	lowest energy	highest energy
(d)		
(e)	(i)	

(ii)

(f)

yes	no

(g)

it decreases	it stays the same	it increases

(h)

(i)

A	**B**
C	**D**

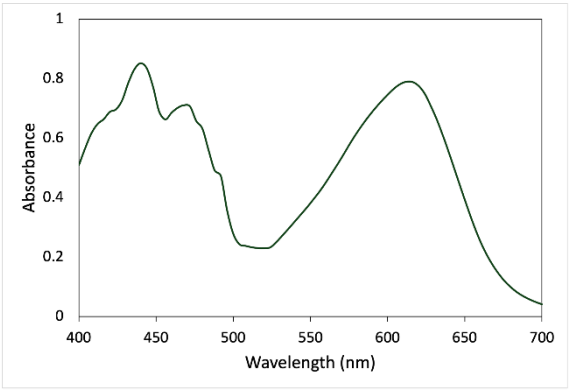
E

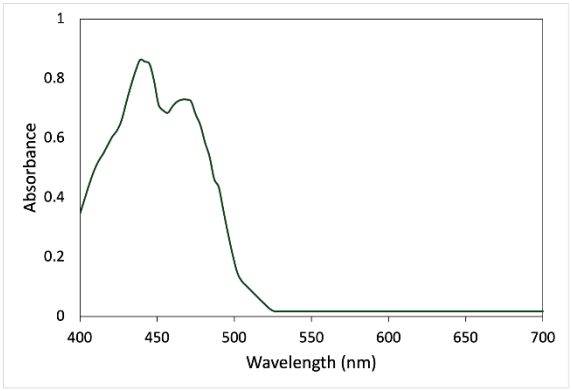
F

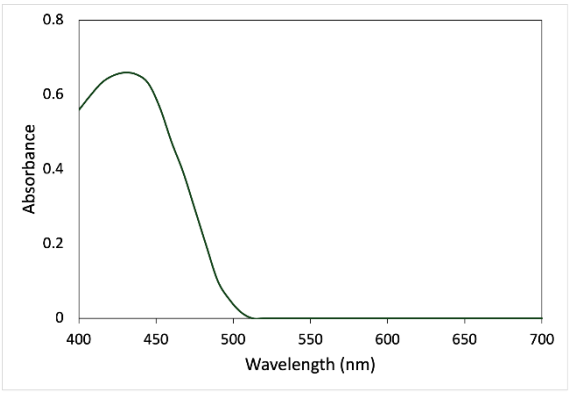
(j)

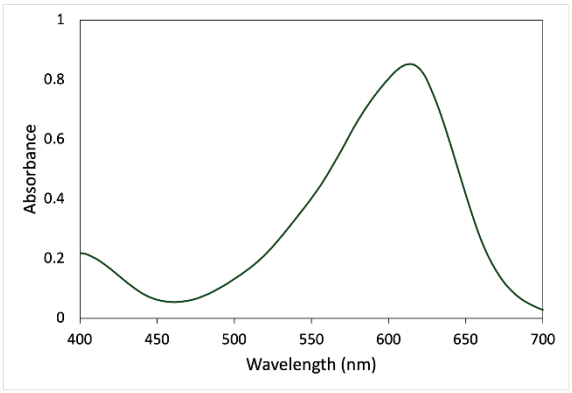
blue	yellow	orange	red

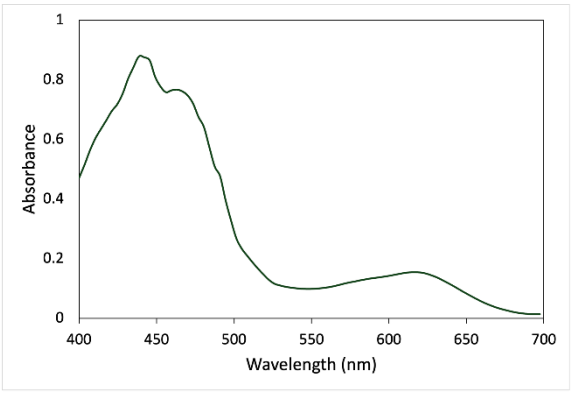
(k)











Total out of 26

5.	This question is about minerals	Mark
(a)		
(b)		
(c)		

libethenite	turquoise

(d)		
(e)	(i)	
	(ii)	

(f)	(i)	
	(ii)	
	Total out of 13	