Question 26 (8 marks)

A student was given the task of naming and/or drawing the structural formula of some organic compounds. The student, however, made some errors.

(a) For each of the following organic compounds, state why the name given by the student is incorrect and rename it using IUPAC nomenclature. (4 marks)

Structural formula and name given by student	Reason for name being incorrect	IUPAC name
H H H O H		
pentan-4-one		
H H O 		
1-aminopropanone		

(b) Circle an error in each structural formula and state the reason why it is an error. (4 marks)

Student's structural formula	Reason
H H H H 	
H H H 	