



SCH4U 5-2H: Balancing Redox Reactions

Total: /20 Marks

Knowledge	Thinking	Communication	Application
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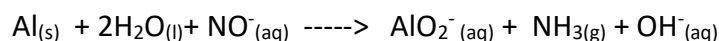
Weight: 4%

Instructions:

- Write your answers in the space provided. If you need more space use a separate piece of paper and clearly write question number on that .
- Include all the steps to show your work .

1. A student from another country has just arrived at your school and is enrolled in your chemistry class. They have just balanced a redox reaction using half reaction method in basic medium, but have made an error.

Here is their incorrectly balanced redox reaction:



Identify where the student went wrong in balancing this equation. What step/steps did not they not do correctly?

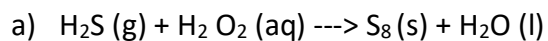
Balance the redox reaction correctly. **Show** all the steps and on your solution, **indicate** clearly where the student made the error. For each error, **explain** what they did wrong and what they should have done instead. (6T)



2. **Provide** an example of an unbalanced redox reaction not found in the LMS. **Write** down the unbalanced reaction and then **balance** it in acidic medium using the half reaction method. **Show** all your steps.

(5A)

3. **Balance** the following redox reactions using the oxidation number method. **Show** all the steps to balance the equation . (3 X 3A)





Name :

