Quiz 5.3 – Redox Reactions

Name:

Question 1

Identify the oxidation state (oxidation number) for each element in the following compounds:

o CO₂

∘ CH₄

o H₂S

• NO₃

o NH₃

o SO₄ 2-

o N₂O

o HCl

o CH₂O

Question 2

For each reaction, identify the oxidizing and reducing agents

$$Zn(s) + 2 HCl(aq) \longrightarrow ZnCl_2(aq) + H_2(g)$$

$$4 \operatorname{Sb}(s) + 3 \operatorname{O}_{2}(g) \longrightarrow \operatorname{Sb}_{4} \operatorname{O}_{6}(s)$$

$$Fe_{_2}O_{_3}(s) \, + \, 3\,H_{_2}(g) \, \longrightarrow \, 2\,Fe(s) \, + \, 3\,H_{_2}O(l)$$

$$C_5^{}H_{_{12}}(g) \, + \, 8\,O_2^{}(g) \, \longrightarrow \, 5\,CO_2^{}(g) \, + \, 6\,H_2^{}O(g)$$

$$N_2(g) + 3H_2(g) \longrightarrow 2NH_3(g)$$

귀천 (Back to Heaven)

By 천상병 (Cheon Sang-byeong)

나 하늘로 돌아가리라 새벽빛 와 닿으면 스러지는 이슬 더불어 손에 손을 잡고,

나 하늘로 돌아가리라. 노을빛 함께 단둘이서 기슭에서 놀다가 구름 손짓하며는,

나 하늘로 돌아가리라. 아름다운 이 세상 소풍 끝내는 날, 가서, 아름다웠더라고 말하리라...

I'll go back to heaven again hand in hand with the dew that melts at the touch of the dawning day,

I'll go back to heaven again. After playing on the slopes with the dusk, when the clouds beckon,

I'll go back to heaven again. On the last day of my outing to this beautiful world, I'll go back and say: it was beautiful...