**5.2.3 Exercise 4 – Fuel Cells**

1. Explain the difference between an electrochemical cell and a fuel cell.
2. Write half-equations to show the electrode reactions taking place at each electrode in:
3. A hydrogen fuel cell
4. A methane fuel cell
5. An octane fuel cell
6. State two advantages of fuel cell vehicles over conventional vehicles.
7. State the three ways in which hydrogen can be stored in a FCV.
8. State three limitations of hydrogen fuel cells.
9. State three other reasons which may prevent a “hydrogen economy” from taking off.