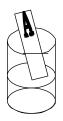
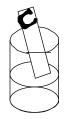
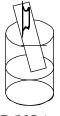
**Redox: Quiz: Activity Series** 

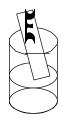












 $A(NO_3)_2$ 

BNO<sub>3</sub>

 $C(NO_3)_2$ 

 $D(NO_3)_2$ 

 $E(NO_3)_3$ 

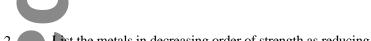
Questions 1- 5 refer to 1.0 M aqueous solutions and strips of metals shown above.

## The following experiments were performed:

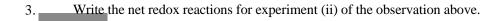
- A strip of metal D was inserted into <u>each</u> of the solutions. Reactions were observed only in solutions containing  $C^{2+}$  and  $A^{2+}$  ions.
- (ii) Metallic B was observed to react with solutions containing  $D^{2+}$  and  $E^{3+}$  ions. It was not tested in the other solutions.
- (iii) Metallic C does not react appreciably with any of the solutions.

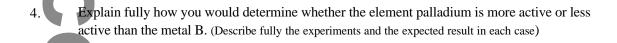
## **Answer the following questions:**

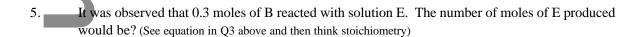
1. If a strip of metal A were placed in each of the solutions, a reaction could be expected in which solution? Justify.



2. List the metals in decreasing order of strength as reducing agents (strongest reducing agent first).







6. Would it be feasible to smuggle BNO<sub>3 (aq)</sub> across the Colombian border in a container made of metal C. Justify your answer.