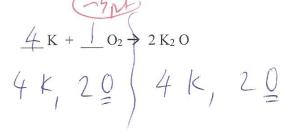
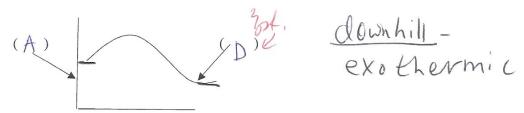
Physical S	cience (PSC 102) Fall 18 D	r. Hahn MWF 9 am Quiz III form A 9/28 F Exam#	_
Name Sign	Key	Name Print (bc I can't read your signatures)	_

<u>Please show work</u> for full credit and partial credit on all questions (even those which do not specify show work).

1. a. Balance the following reaction by filling in the blank with the appropriate number. (6 pts)



2. For the following energy diagram, label by matching the letter to the provided parenthesis. (A) Energy (B) time or progress of reaction (C) reactant (D) product (6 pts)



3. Given the following reactant, write down the expected reaction product. Reaction does not need to be balanced. (6 pts, 3 pts each blank)

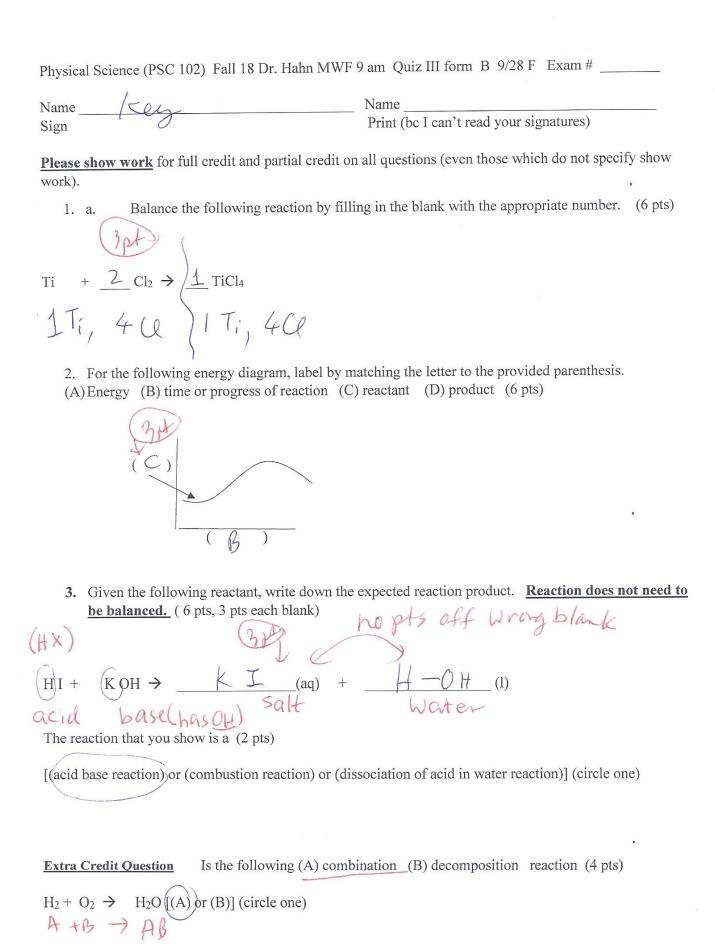
be balanced. (6 pts, 3 pts each blank)

$$C_2H_6 + O_2 \rightarrow CO_2$$
 (g) + $C_2H_6 + O_2 \rightarrow CO_2$ (l)

The reaction that you show is a (2 pts)

[(acid base reaction) or (combustion reaction) or (dissociation of acid in water reaction)] (circle one)

Extra Credit Question Is the following (A) combination (B) decomposition reaction (4 pts) $H_2 CO_3 \rightarrow H_2O + CO_2$ [(A) or (B))(circle one) A B → A + B



Physical Science (PSC 102) Fall 18 Dr. Hahn MWF	11 am Quiz III form A 9/28 F Exam #
Name Kely	Name Print (bc I can't read your signatures)
Sign	Print (bc I can't read your signatures)
<u>Please show work</u> for full credit and partial credit on work).	all questions (even those which do not specify show
Great	ng in the blank with the appropriate number. (6 pts)
$\frac{2}{2}$ Na + $\frac{1}{4}$ Br ₂ \Rightarrow 2 Na Br	·
$2 \text{ Na} + 4 \text{ Br}_2 \Rightarrow 2 \text{ Na Br}$ $2 \text{ Na}, 2 \text{ Br}$ $2 \text{ Na}, 2 \text{ Br}$	
2. For the following energy diagram, label by ma (A) Energy (B) time or progress of reaction (C)	
(A)	exothermic
be balanced. (6 pts, 3 pts each blank)	expected reaction product. Reaction does not need to
izahocarbon (only C+H)	
	O (1)
(no pts	off wrongs land
The reaction that you show is a (2 pts)	
[(acid base reaction) or (combustion reaction) or (diss	ociation of acid in water reaction)] (circle one)
Extra Credit Question Is the following (A) combin	nation (B) decomposition reaction (4 pts)
$H_2 + O_2 \rightarrow H_2O$ [(A) or (B)] (circle one) $A + C \rightarrow AB$,

Physical Science (PSC 102) Fall 18 Dr. Hahr	n MWF 11 am Quiz III form B 9/28 F Exam#			
Name Kly Sign	Name Print (bc I can't read your signatures)			
Please show work for full credit and partial credit on all questions (even those which do not specify show				

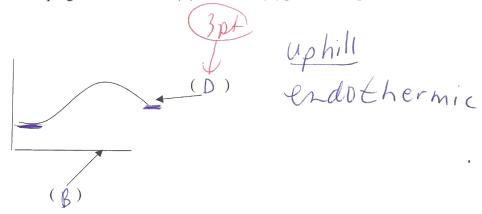
W work).

Balance the following reaction by filling in the blank with the appropriate number. (6 pts)

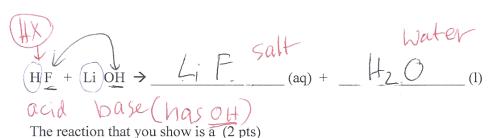
$$\frac{2}{2}Al + \frac{3}{5}Cl_2 \Rightarrow 2AlCl_3$$

$$2Al, 6Cl 2Al, 6Cl$$

- 2. For the following energy diagram, label by matching the letter to the provided parenthesis.
- (A) Energy (B) time or progress of reaction (C) reactant (D) product (6 pts)



3. Given the following reactant, write down the expected reaction product. Reaction does not need to **be balanced.** (6 pts, 3 pts each blank)



[(acid base reaction) or (combustion reaction) or (dissociation of acid in water reaction)] (circle one)

Is the following (A) combination (B) decomposition reaction (4 pts) **Extra Credit Question** $H_2 CO_3 \rightarrow H_2O + CO_2 [(A) or (B)]$ (circle one) AB > A + B