Quiz 7

1. Consider the following example for questions (a)–(g).

9	6	2	7
A	C	C	B
C	B	A	A
B	A	B	C

ballot change
$\xrightarrow{}$
for A

9	6	2	7
A	C	**A**	B
C	B	**C**	A
B	A	B	C

(a) Who is/are the winners for plurality in the election on the left? (1 pt) $W_P = \{$ _____ $\}$

(b) Who is/are the winners for runoff in the election on the left? (1 pt) $W_R = \{$ _____ $\}$

(c) Consider the ballot change favorable to A, pictured above right.
   After this ballot change:

   i. What is the NEW winner set for plurality? (1 pt) $W_P' = \{$ _____ $\}$

   ii. What is the NEW winner set for runoff? (1 pt) $W_R' = \{$ _____ $\}$

(d) Which winner selection method <u>fails</u> to satisfy monotonicity <u>for this example</u>?
   <u>Circle all the apply</u> (2 pts):

   plurality   runoff

   Choose <u>one</u> of the above and explain why it does or does not satisfy monotonicity <u>for this example</u>
   (2 pts):

2. Circle T if the claim is true, F if the claim is false. (1pt each)

   (a)   The beatpath method is a priori Smith fair.   T   F

   (b)   The beatpath method has no <u>losing</u> spoilers ever.   T   F

PLEASE WRITE YOUR NAME ON THE BOTTOM OF THIS PAGE

Name: _____