YOUR NAME:

YOUR RCS ID: _____ @rpi.edu

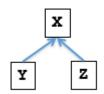
Your RCS ID is the first part of your RPI e-mail address

Principles of Software Quiz 6

Nov. 1, 2018

10 points total

Question 1. (8 points) Given this hierarchy with classes X, Y, and Z:



What are valid instantiations of generics

class A
$$<$$
T extends X $>$ {} ? A $<$ Y $>$ Given A $<$ X $>$, A $<$ Z $>$

class A
$$<$$
T extends Z $>$ {} ? A $<$ Z $>$

class A
$$<$$
T super Z $>$ {} ? A $<$ X $>$, A $<$ Z $>$, A $<$ Object $>$

class A
$$<$$
T super X $>$ {} ? A $<$ X $>$, A $<$ Object $>$

Question 2. (2pts) Which of the following is correct about Factory design patterns?

- A This type of design pattern falls under creational patterns.
- B The Factory pattern allows us to create objects without explicitly using the **new** operator.
- C The Factory pattern allows for the creation of subtypes.
- D All of the above.

D