1. (1/2 point) One method for creating Patient-Specific pluripotent stem cells is through Somatic Cell Nuclear Transfer (SCNT). (True or False)

A. True
B. False

Answer: A (True)

2. (1/2 point) All cell reprogramming methods using transcription factors that have been developed up to now REQUIRE the generation of a pluripotent stem cell stage (i.e. iPS cells). (True or False)

A. True
B. False

Answer: B (False)

3. (1 point) You have been working to design a biomarker test that can predict sickle cell disease severity in patients. Recent modifications that you have made to the test have led to an INCREASED number of false positives and false negatives. How would these changes affect the area-under-the-curve (AUC) calculated from ROC curve analysis? (Circle ONE best answer.)

A. AUC would increase
B. AUC would remain the same
C. AUC would decrease

Answer: C
4. **(1 point)** Ribose treatment of collagen gels leads to what alteration in the properties of these gels. (Circle ONE best answer)

A. **Increase** in integrin binding sites available to cells.
B. **Decrease** in integrin binding sites available to cells.
C. **Increase** in gel stiffness (elastic modulus).
D. **Decrease** in gel stiffness (elastic modulus).

**Answer:** C