QUIZ Time

Bio 20

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Bio 20

1.Which cells are found between the sarcolemma and basal lamina in muscle tissue?
A. Satellite cells
B. Periosteum cells
C. Hematopoietic cells
D. Pluripotent cells

2.What is the source of embryonic stem cells?
A. Adult tissue
B. Bone marrow
C. Inner cell mass of a blastocyst
D. Skin cells

3.Which type of stem cells are typically multipotent or unipotent and found throughout the body after development?
A. Embryonic stem cells
B. Induced pluripotent stem cells
C. Adult stem cells
D. Totipotent stem cells

4.What is a stem cell niche?
A. A type of stem cell
B. A specialized microenvironment that regulates stem cell behavior
C. A laboratory technique for cell culture
D. A type of cell differentiation

5.What are the two unique abilities that make stem cells special?
A. Self-renewal and differentiation
B. Growth and division
C. Reproduction and death
D. Mutation and adaptation

6.What is the main advantage of induced pluripotent stem cells (iPSCs)?
A. They are easier to obtain than embryonic stem cells
B. They can be created without using embryos and avoid immune rejection
C. They are more potent than other stem cells
D. They are naturally occurring in the body

7.Which type of stem cells can differentiate into all cell types of an organism, including both embryonic and extra embryonic tissues?
A. Pluripotent stem cells
B. Totipotent stem cells
C. Multipotent stem cells
D. Unipotent stem cells

8.What type of stem cells are found in bone marrow?
A. Only hematopoietic stem cells
B. Only mesenchymal stem cells
C. Both hematopoietic and mesenchymal stem cells
D. Neither hematopoietic nor mesenchymal stem cells

9.What are the three primary germ layers that form during gastrulation?
A. Endoderm, mesoderm, and ectoderm
B. Trophoblast, endoderm, and ectoderm
C. Mesoderm, blastocyst, and endoderm
D. Ectoderm, morula, and mesoderm

10.What is Somatic Cell Nuclear Transfer (SCNT)?
A. A process of natural cell division
B. A technique for creating induced pluripotent stem cells
C. A laboratory technique transferring a somatic cell nucleus into an enucleated egg cell
D. A method of stem cell differentiation

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Answers

1-a	6-b
2-c	7-b
3-c	8-c
4-b	9-a
5-a	10-c

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