

## **Week 1 – Stem Cell Research - Key**

### **2. Definitions – answers**

1. stem cells – i) general cells which produce other specialised types of cells (e.g. blood cells)
2. tissue – j) a collection of cells with a similar structure and particular function in an animal/plant (here)
3. hampered – f) hindered, affected the progress of
4. ethical concerns – h) moral problems, or worries relating to professional conduct
5. are derived from – d) are produced or developed from
6. embryos – b) young animal (here human) in the earliest stage of development
7. tantamount – e) the same as something else (especially something bad), equal in meaning
8. cannibalism – a) eating the flesh of your own species
9. versatility – g) flexibility, capable of many different uses
10. genetic match – c) very similar or identical set of genes

### **3. Listening**

#### **a) Questions – answers**

- 1 – That the source of stem cells is unethical because they are destroyed after the process - 'tantamount to cannibalism' (paragraph 2)
- 2 – 'Amniotic fluid has been found as an alternative source for stem cells'. (paragraph 3)

#### **b) T/F – answers**

1. False – Paragraph 1 of the written text says, 'stem cells offer real hope of treating illnesses like diabetes...[they] can grow into types of tissue that are destroyed by the progression of these diseases'.
2. False - Paragraph 2 says 'Scientists say the most useful types are derived from specially grown human embryos'.
3. True – Paragraph 2 says, 'opponents say...this is tantamount to cannibalism'.
4. False – Paragraph 3 says '...scientists in the United States' not the United Kingdom.
5. True – Paragraph 3 says, 'The scientists...have found a ready source of useful stem cells in amniotic fluid, the liquid that surrounds a growing baby'.
6. False – Paragraph 4 says 'they say that a bank of 100,000 of these stem cells could supply a genetic match for 99 percent of the US population' ; 100,000 not 1000.

#### **c) Listen once more and fill in the gaps:**

1. grow
2. research
3. effort
4. growing
5. muscle
6. restore
7. renew
8. supply

#### **4. Grammar**

**a)**

1 – real

2 – hope

3 – type

4 – embryonic

5 – ethics (always plural)

6 – functional

7 – able

8 – versatile

9 – gene