**SARDAR BHAGWAN SINGH UNIVERSITY, BALAWALA, DEHRADUN**

**Session: 2019 – 2020**

**ASSIGNMENT 6**

**School / Department** : Biotechnology and Biochemistry

**Name of Course and Semester :** B.Sc. Biotech 6th Sem

**:Subject :**Animal Biotechnology  **Code :** DSEBt-02

**Question 1) Fill in the blanks :**

1. The term Stem cell was given by…………..
2. ……………is the ability to only produce cells of their own type, but have the property of selfrenewal
3. Oligopotent is the ability to differentiate into a few cells……………………
4. ……………………stem cell are derived from the early embryos.
5. Adult stem cells are also called as……………………………..
6. Each cycle of subculturing the cells is referred to as a ……………….

**Question 2) Answer the following questions briefly:**

1. Give the Classification of Stem cells on the Basis of their Sources.
2. What are Stem Cells? Write about its important features.
3. What is the difference between Adult and Embryonic stem cells?
4. Whatdo you understand by the “selfrenewal” and potency of Stem cells?
5. Explain the difference between Totipotent, Pluripotent and Multipotent Giving an example in each category.
6. What are the two types of Adult Stem cells?
7. What is a Stem cell line?

**Question 3) Write about Various applications of Stem cells.**