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

**Session: 2019 – 2020**

**ASSIGNMENT 4**

**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. What is Animal Cloning?
2. SCNT stands for ……………………..
3. …………………… twins  are created when a fertilised egg (zygote) splits into two identical cells, each forming an embryo
4. …………………… was the first mammal being cloned
5. Cross species nuclear transfer may lead to …………………………….. incompatibilities which may lead to the death of the cloned animals
6. One of the main reasons at present to clone farm animals is to preserve the …………………Capacity of genetically elite animals
7. There are ………….. issues related with cloning of animals

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

1. What is the Reproductive cloning?
2. What is Therapeutic cloning?
3. What is Embryo twinning?
4. Who is a Surrogate mother?
5. Differentiate between SCNT and Embryo splitting
6. What is Placental and Post-natal viability?

**Question 3) Answer the following questions in Detail:**

1. Explain with a well labelled diagram the technique used for Cloning .
2. Write about any 5 applications of the cloned animals.