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

**Session: 2019 – 2020**

**ASSIGNMENT 9**

**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. ……………..is a method in which insects are engineered to ensure that when they mate with wild individuals no viable offspring are produced
2. RIDL stands for ………….
3. ………………strategies involve permanently replacing wild populations of insects with GM varieties
4. ……………..have also been genetically modified to produce [spider silk](http://www.nsf.gov/news/special_reports/science_nation/spidersilk.jsp),  
   one of the strongest materials known to man, in their milk.

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

1. Write about Human Mouse and Oncomouse.
2. Why mice are models of choice in biomedical research?
3. Write the steps involved in the procedure to generate transgenic insects by germ line transformation.
4. Why and how are featherless Chickens produced?
5. Write a note on use of Sheep and Goat as Bioreactors. Give examples also.

**Question 3) Explain in detail**

1. With the help of a diagram explain how can you make a transgenic mouse?
2. Explain the following technoques used to develop a transgenic insect:
3. Sterile insect technique
4. Paratransgenesis(Give example)