



INDIAN SCHOOL MUSCAT

CLASS : XII
SUBJECT: BIOLOGY
WORKSHEET : 13



DATE :

TOPIC/SUB-TOPIC : **APPLICATIONS OF BIOTECHNOLOGY**

- | | | |
|----|---|---|
| 1 | Expand GEAC. | 1 |
| 2 | Write the trigger for activation of toxin of <i>Bacillus thuringiensis</i> | 1 |
| 3 | Name the transgenic rice having β -carotene gene. | 1 |
| 4 | What is used to silence mRNA in RNAi mechanism. | 1 |
| 5 | ADA is an enzyme which is deficient in a genetic disorder SCID. What is the full form of ADA? | 1 |
| 6 | Expand GMO. How is it different from a hybrid? | 2 |
| 7 | Give the full form of ELISA. Which disease can be detected using it? Discuss the principle underlying the test. | 2 |
| 8 | How was Insulin obtained before the advent of rDNA technology? What were the problems encountered? | 2 |
| 9 | Name the first transgenic cow. Which gene was introduced in this cow? | 2 |
| 10 | How is a mature, functional insulin hormone different from its prohormone form? | 2 |

