

**GUJARAT NATIONAL LAW UNIVERSITY  
GANDHINAGAR**

**Course: Bio-Technology  
Semester- II (Batch: 2020-25)**

**End Semester Online Examination: July-August 2021**

**Date: 07<sup>th</sup> August, 2021**

**Duration: 8 hours**

**Max. Marks: 40**

**Instructions:**

- The respective marks for each question are indicated in-line.
- Indicate correct question numbers in front of the answer.
- No questions or clarification can be sought during the exam period, answer as it is, giving reason, if any.
- Word Limit: 10 Marks:650-700 Words.

	Marks
Q.1 Search online information about <b>Yoda the Methuselah Mouse, Alba the Glowing Rabbit, Spider Goat</b> . Write a report on these mind blogging biotech experiments. Add a brief note on ethical issues.	(10)
Q.2 What is Tuskegee Syphilis study? Explain the ethical principles that were violated in this study?	(10)
Q.3 What is a recombinant drug? How are they produced? Briefly discuss any five recombinant drugs marketed in India. (Answer must include drug/ molecule, therapeutic application, firm etc.)	(10)
Q.4 Zolgensma is the world's most expensive therapy drug priced at \$2.125 million per patient. Based on our classroom discussion on gene therapy, discuss the ethical legal challenges of this drug. Add a note on five other gene therapy drugs approved so far with their therapeutic application.	(10)

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