Register Number:

Date:

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**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27**

**UG - IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2022**

**(Examination conducted in July 2022)**

**BT OE 4118 - Biotechnology Now and Beyond**

Time- 1 ½ hrs Max Marks-35

This question paper contains **one** printed page and **three** parts

 **Answer any FIVE of the following questions 1x5 = 5 marks**

1. What is a clone?
2. What is the role of ligase in genetic engineering?
3. Give any two examples of GMOs.
4. What is pedigree analysis?
5. What is Bt cotton?
6. What is a biohazard organism?
7. In the movie GATTACA, which components of biotechnology were used.

**Answer any TWO of the following questions**  **5x2=10 marks**

8. Explain human genetic disorders with an example.

9. Write a note on the human genome project.

 10. What is the function of the nucleus? Draw a labelled diagram.

**Answer any TWO of the following questions.**  **10x2 = 20 marks**

11. Draw the structure of the DNA and write a note on Griffith’s experiment.

12. You found a strand of hair at the crime scene that doesn’t belong to the victim. How would you figure out which of the 3 suspects committed the crime?

13. What are stem cells? Write a short note on thier applications.

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