

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS-2022

B.Tech-6<sup>th</sup> Semester (BT)

COURSE CODE: Food and Agricultural Biotechnology

MAX. MARKS: 25

COURSE NAME: 18B11BT612

COURSE CREDITS:03

MAX. TIME: 1 hr 30 min

*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

- Q1. How you can make transgenic disease resistance Strawberry by using leaf disc transformation by the *Agrobacterium* method? Which step of this transgenic method is of high significance and why?(CO2&3) (3.5+1.5)
- Q2. Mention the health benefits of Nutraceuticals with specific pharmacological significance. Explain their sources that would be utilized as dietary supplements.(CO1) (2.5+1.5)
- Q3. Explain the different techniques of following chemical preservation in food technology. Mention anyone latest technology with an example that is used at the commercial level? (CO1 &2) (2.5+2.5)
- Q4. How you can distinguish old and new crop improvement technologies? Cite examples. Explain any two crops developed by using advanced crop biotechnology. (CO3&4)(2.5+2.5)
- Q5. Which different factors contribute to yeast production at commercial scale? Explain different products produce by using different strains of yeast in the market. (CO2)(2.5)
- Q6. What is the role of FSSAI? What are their objectives and how they are carrying out the successful implementation for checking food quality?(CO1 &2) ( 3.5)