

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- APRIL-2023

B.Tech-6th Sem (BT)

COURSE CODE(CREDITS):18B11BT612

MAX. MARKS: 25

COURSE NAME: Food & Agricultural Biotechnology

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 1 hour 30 minutes

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

- Q1. Which components of nutraceuticals played important role in cancer treatments? How its absorption and digestion carried out? (CO1) (3)
- Q2. For carrying out the pasteurization of foods only sterilization is not alone required. Explain this statement by demonstrating the pasteurization of milk at a commercial scale and complete protocol for maintaining its nutrient value also. (CO2) (4)
- Q3. Why biotechnological interventions are required for the production of disease-free papaya? Why conventional methods are not able to produce the desired crops? Conceptualize a methodology for its large-scale production. (CO3) (4)
- Q4. How canning of pineapple will be carried out? Explain the role of freezing techniques for its long-term storage. Which risk factors should be abstained for quality assurance of the products during storage? (CO4) (4)
- Q5. Which are the most desirable nutraceuticals consumed for antioxidant activity? Explain with examples for any two commercial products, along with their different functionalities and sources of extraction. (CO2)(4)
- Q6. Explain the reasoning:
- A) Which chemical preservative would be most useful for food storage and why?
 - B) Do you think synbiotics are having health benefits? How?
 - C) Which type of Yeast is most useful for flavor development in fermented products?
- (CO1&2) (6)