

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

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

COURSE CODE(CREDITS):18B11BT612

MAX. MARKS: 15

COURSE NAME: Food &amp; Agricultural Biotechnology

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 1 Hour

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

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- Q1. Which components of food played an important functional and structural role in growth and repair in the human body? How its absorption and digestion carried out? (CO1) (3)
- Q2. Explain the role and benefits of Vitamin B12 and Pectin. Explain their sources which would be utilized as dietary supplements. (CO1) (2)
- Q3. Why biotechnological interventions are required in Agricultural sciences? Mention any one latest technology with an example which is revolutionizing agriculture and how? (CO3) (2.5)
- Q4. How food spoilage is carried out by microbes? Explain their mechanisms. How do food processing techniques prevent food spoilage? (CO2) (2.5)
- Q5. Which are the most prominent intrinsic factors and how those affect the microbial growth in food? To what extent the antimicrobial components are successful in restricting microbial growth? Explain with examples. (CO2)(3)
- Q6. Explain the function of MCFAs and Carotenoids rich food for maintaining health? Which are sources for the same? (2) CO1