

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-3 EXAMINATION – MAY 2019

B.Tech VIth Semester (Biotech)

COURSE CODE: 10B11BT612

MAX. MARKS: 35

COURSE NAME: Food and Agricultural Biotechnology

COURSE CREDITS: 4

MAX. TIME: 2HRS

Note: All questions are compulsory. Carrying mobile phone during examinations will be treated as a case of unfair means.

1. A) Why ethics required in agricultural biotech? What are the major concerns and measures taken for modern agricultural biotechnology?
B) Write short notes on Cartagena Protocol and Terminator Technology
[6 Marks]
2. How biofertilizers are different from fertilizers? How many types of biofertilizers are available? How it can be applied for crop improvement program?
[6 Marks]
3. Write a note on the food safety issues. Explain about the functioning of the regularity board for food safety in India.
[5 Marks]
4. What are nutraceuticals? Discuss about the health benefits of some common nutrients and minerals.
[5 Marks]
5. Define and explain the concept of probiotics and prebiotics. Mention some commonly used probiotics and prebiotics.
[5 Marks]
6. Write short notes on: [each question carry 2 marks]
 - a. Factors affecting food spoilage
 - b. Water of activity and its importance in food spoilage
 - c. Salting and curing in chemical food preservation
 - d. Importance of head space in canning[8 Marks]