

2/5/2023 (W)

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.Sc. (Hons.) Biotechnology 6th Semester

(2053)

FOOD BIO-TECHNOLOGY

Paper : BIOT-603-T

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :— Attempt any *five* questions in all. Question No. 1 is compulsory. Select *one* question from each unit.

1. (a) Give any two applications of enzymes in food industry.
- (b) Describe briefly any two chemical methods of food preservation.
- (c) Write a short note on coloring agents.
- (d) What is the difference between fortified and biofortified foods ?
- (e) Write a short note on Miso.
- (f) Describe briefly Shigellosis. 2.5×6=15

UNIT—I

2. (a) Describe sampling plan and procedure for microbial analysis.
(b) Discuss two quantitative and two qualitative methods for microbial detection in food. 7,6
3. (a) Discuss indirect recommended estimation procedures for enumeration of microbes in food.
(b) What factors are responsible for the growth of microbes in food sample ? 7,6

UNIT—II

4. (a) Discuss principle and procedure for biological methods of food preservation.
(b) Discuss the prominent contaminant sources for spoilage of milk products. What are the deciding factors in selection of preservation methods for milk products ? 7,6
5. (a) Discuss spoilage defects in meat and fish products.
(b) Describe contamination and preservation of canned meat and fruits. 7,6

UNIT—III

6. (a) What is food adulteration ? Enlist common food adulterants and methods of their detection in food.
(b) Discuss production of sauerkraut. 7,6

7. (a) What are probiotics and prebiotics ? Give uses of probiotics.
(b) Describe Genetically modified crops along with a suitable example. 6,7

UNIT—IV

8. (a) Discuss rapid methods of pathogen detection in food.
(b) What are endotoxins and their mechanism of action ? 7,6
9. (a) Write notes on :
(i) Cholera
(ii) Salmonellosis.
(b) Write briefly about food borne intoxications along with causes, symptoms and organism by giving a suitable example. 8,5