Exam. Code: 0911 Sub. Code: 6722

1079

B. Engg. (Bio-Technology) 7th Semester

BIO-712: Food Biotechnology

fine allowed: 3 Hours

NOTE:

Max. Marks: 50

Attempt five questions in all, including Q. No. 1 which is compulsory and selecting atleast two questions from each Unit-I & II.

Answer the following briefly: I.

- Write briefly on morphology of fungi important in food. a)
- What are the different bacterial and fungal genera used for SCP b) production?
- What is water activity? c)
- What is HACCP system? d)
- What is the importance of smoking, method in food? e) (5×2)

UNIT-I

Describe the chemical methods for control and destruction of microorganisms. II.

(10)

- Write briefly on following genera (Do any Five): -III.
 - **Pseudomonas** (a)
- Campylobacter (b)
- Acinetobacter (c)

- Penicillium (d)
- Aspergillus (e)
- Saccharomyces (f) (10)

Write contribution of following scientists: IV.

- Louis Pasteur (i)
- Antony Van Leewenhoek (ii)
- Francesco Redi (iii)
- Edward Jenner. (iv)

Write in short about spontaneous generation along with Theodor Schwann's (10)experiment disapproving it and Koch's Postulate.

UNIT-II

- What are food borne diseases? Distinguish between invasive and non-invasive infectious microorganisms. Describe the important characteristics of the causative V. agents associated with food borne intoxications.
- Write the name of organism and production process involved in soy sauce. VI. (a)
 - What are the advantages and disadvantages of different microorganisms (b) used in SCP production?
- What are the applications of various microbial and molecular techniques VII. (a) (5+5)
 - Give an overview of food intoxications by mycotoxins. (b)