## B.Sc. 4th Semester (Honours) Examination, 2022 <br> SUB: MICROBIOLOGY <br> Course Code: SH/MCB/403/C-10 Course Title: Food and Dairy Microbiology

Course ID: 42213

Full Marks: 25
Time: 1h 15 Mins.
The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
UNIT I

1. Answer any five questions from the following: $\quad 1 \times 5=5$
(a) What are osmotolerant species?
(b) What is starter culture?
(c) What is the full form of HACCP?
(d) What is meant by lactic antagonism?
(e) What are the antigen detection tests?
(f) Write the use of pulse electric field in food preservation.
(g) Define 'fermentation'.
(h) What is meant by buffered food?

## UNIT II

2. Answer any two questions from the following:
$5 \times 2=10$
(a) How microbial spoilage of food can be determined? What should be the criteria for good storage condition of food?
$2+3=5$
(b) Write some examples of fermented dairy products. Write the roles of microbes in sauerkraut preparation.
$2+3=5$
(c) What are the symptoms of Vibrio parahaemolyticus poisoning? What measure should be taken to treat this poisoning?
$2+3=5$
(d) Write and account on microbial spoilage of fresh fruits and fruit juice.

## UNIT III

3. Answer any one question from the following:
(a) Write an account on salmonellosis. What is thermal death point? What are the health benefits of fermented foods?
$4+4+2=10$
(b) What are the causes of microbial contaminations of meat and how can the microbial spoilages of meat be prevented?
$4+6=10$
