

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2011 – 2012 & thereafter)

SUBJECT CODE: 11BT/ME/FH23

B.Sc. DEGREE EXAMINATION, APRIL 2015
BRANCH V.(C).-PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
SECOND SEMESTER

COURSE : MAJOR – ELECTIVE
PAPER : FOOD MICROBIOLOGY, SANITATION AND HYGIENE
TIME : 1½ HOURS **MAX. MARKS: 50**

SECTION – A

ANSWER ALL OF THE FOLLOWING. EACH ANSWER NOT EXCEEDING 50 WORDS: **(10 x 2 = 20 marks)**

1. What is an endospore?
2. Distinguish between gram + and gram – ve bacteria.
3. What is bacterial soft rot?
4. Name the organisms causing food contamination in cereals.
5. What is ropiness?
6. Comment on botulism.
7. What is pasteurization?
8. Comment on mould.
9. What is thawing?
10. Mention the role of a sanitizer.

SECTION – B

ANSWER ANY FOUR OF THE FOLLOWING. EACH ANSWER NOT EXCEEDING 200 WORDS: **(4 x 5 = 20 marks)**

11. Give an account of the growth curve of bacteria.
12. Write notes on spoilage in vegetables and fruits.
13. Elaborate the importance of personal hygiene in food handler.
14. Describe food borne illness with particular reference to *Salmonella* sp.
15. Give a brief description on food safety.
16. Enumerate the characteristics of bacteria.

SECTION – C

ANSWER ANY ONE OF THE FOLLOWING. EACH ANSWER NOT EXCEEDING 600 WORDS: **(1 x 10 = 10 marks)**

17. Give an account of effect of environmental factors on growth of micro-organism in relation to pH, O₂ availability and temperature.
18. Illustrate and describe the structure and layout of food premises.
