

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600 086**

**(For Candidates admitted during the academic year 2015-2016 and thereafter )**

**SUBJECT CODE : 15ZL/UI/FS23**

**B.Sc DEGREE EXAMINATION, APRIL 2019**

**BRANCH VI A –ADVANCED ZOOLOGY & BIOTECHNOLOGY**

**SECOND SEMESTER**

**COURSE : INDEPENDENT ELECTIVE**

**PAPER : FUNDAMENTALS OF FOOD SCIENCE**

**TIME : 3 HOURS**

**MAX.MARKS : 100**

**SECTION A**

**ANSWER ALL THE QUESTIONS**

**(10X3=30)**

1. Give the food sources for Carbohydrates, Proteins and Fats.
2. What is meant by Diet therapy ?
3. Name the bacteria causing spoilage in vegetables and fruits.
4. What is IQF ?
5. Give examples of extruded food.
6. Comment on shelf-life
7. What is Bio-polymer ?
8. What is BOAA test ?
9. Give examples of naturally occurring food toxicants.
10. What are the broad categories of fermentation technology ?

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS**

**( 5X6=30 )**

11. Explain dietary management in Diabetes mellitus.
12. Give an account of growth curve of bacteria.
13. Describe the use of detergents and chemicals for sterilisation.
14. Elaborate classification of Corrugated Fibre Board.
15. Describe Quality testing of Packaging.
16. Comment on Fortification technology.
17. Describe food labeling.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS**

**( 2X20=40 )**

18. Give a detailed account of Malnutrition with reference to Kwashiorkor and Marasmus. Add a note on Basic Five Food Groups.
19. Highlight the importance of Personal Hygiene of food handle and list the safety precautions.
20. Describe the Packaging functions and enlist the Packaging materials used in India.
21. Discuss the tests for Adulteration in Dhal, Oil, Spices and Ghee.

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