STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted from the academic year 2019 – 2020)

SUBJECT CODE: 19BT/ME/FN45

B.Sc. DEGREE EXAMINATION, APRIL 2022 BRANCH V(a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY SIXTH SEMESTER

COURSE PAPER		ELECTIVE FRUIT PRESERVATION AND NUTRITION			
TIME	: 3 H	OURS		MAX. MARKS: 100	
SECTION - A A. ANSWER THE FOLLOWING I. Choose the correct answer				18 Marks (1x5=5)	
(a) Lactoba 2. Loss of fluid	cillus (b) ls from jam	and jellies refers to	(c) Pseudomonas	(d) Bacillus	
3. Soluble solid (a) P ^H meter	(b)	fruits is read throu Densitometer	(c) Colorimeter	(d) Filtration(d) Refractometer	
(a) Flame pe	eeling (b)	ing them in caustic Abrasive peeling on malic acid is co	(c) Lye peeling	(d) Mechanical peeling	
(a) Acetic ac	eid (b)	Lactic acid	(c) Ethanol	(d) Citric acid	
II. Fill in the blanks:				(1x5=5)	
7. An antioxid 8. The study of	ant present i f wine makii ional symbo	n tomatoes is calleng is called as	ed as od is		
III. State True or False				(1x3=3)	
12. Blanching	inactivates e	ent is applied to dienzymes. The benzoic acid in §			
IV. Match the following				(1x5=5)	
14. Vitamin B15. Sterilizatio16. Vitamin C17. Vitamin B18. Sour wine	n - -	Ascorbic acid Vinegar Pyridoxine Autoclave Thiamine			

V. ANSWER ANY SIXOF THE FOLLOWING QUESTIONS IN 50 WORDS EACH:

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(6x3=18)

- 19. Thermal Death Time.
- 20. Uses of blanching.
- 21. Differentiate class I and Class II preservatives.
- 22. Tunnel drying.
- 23. Importance of antioxidants.
- 24. Differentiate fruit squash and syrup.
- 25. Any 3 health benefits of Cider.
- 26. Describe Fermentation process.
- 27. Pectin

SECTION - B

ANSWER ANY <u>FOUR</u> OF THE FOLLOWING QUESTIONSIN ABOUT 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY. (4x6=24)

- 28. Comment on the importance of radiation in food preservation.
- 29. Draw the flowchart of red wine preparation.
- 30. Tabulate the classification of fruits.
- 31. What are the functions and sources of Vitamin B complexes.
- 32. Discuss the end point tests for jam and jelly.
- 33. Write short notes on pigments in fruits.

SECTION - C

ANSWER ANY <u>TWO</u> OF THE FOLLOWING QUESTIONS IN ABOUT 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY. (2x20=40)

- 34. Discuss the role of high temperature and chemical preservatives in the preservation of food.
- 35. Give a detailed account on carotenoids, flavonoids and antioxidants present in Fruits
- 36. Describe in detail the steps involved in the process of canning.
- 37. Explain the preparation of the following fruit products:
 - (a) Mixed Fruit Jam
- (b) Grape Crush
- (c) Mixed vegetable pickle (d) Lime syrup
