STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2008-09)

SUBJECT CODE: BT/ME/FN54

B. Sc. DEGREE EXAMINATION, NOVEMBER 2010 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIFTH SEMESTER

COURSE: MAJOR – ELECTIVES

17. Yoghurt is a fermented food.

18. Psychrotrophs can grow in chilled foods.

PAPER			RVATION AND NUTRITION
TIME	: 3	HOURS	MAX.MARKS:100
			SECTION – A
ANSWER A	ALL QUES	TIONS	(18 marks)
CHOOSE T	THE CORF	RECT ANSWE	CR:
1	can survive	after pasteuriza	ation
			c. Streptococcus d. None of the above
2	is used for	r making Cheese	
a. bacteria			d. actinomycetes
			used to prevent the growth of aerobic
microorga			
_	_		d. none of these
			ice for the standard jellies
_	• •	etins b.	low methoxyl pectins c. High & low methoxyl pectins
d. none o			
		flavonoids is	
			3 - 2 C ₆) _n d. C ₆ - 2 -C ₆
			ountered fungi in fermented beverage and foods based on fruit c. <i>Candida</i> d. <i>Saccharomyces & Candida</i>
	•	1 0	·
FILL IN TI	HE BLANK	KS:	
7. Pasteuriza	ation is the t	erm given to he	eat processes typically in the range of
			iled to extract the
9. One of the	e major diff	erence in the sec	quence of operation between fruit and vegetable canning is
the			
10	bacte	rial spores are th	he most radiation resistant
11. Main fui	nction of fla	vonoid in plants	s is
12	bacteria	are used in the J	preparation of vinegar
STATE WI	HETHER T	RUE OR FAL	SE:
13. Cans are	e cooled rap	oidly after heat r	processing to prevent spoilage by thermophiles.
		sitive to UV rac	
15. The cold	our of tomat	o fruit is due to	the presence of carotenoids.
		For food preserva	•

ANSWER ANY SIX QUESTIONS. EACH ANSWER NOT TO EXCEED 50 WORDS

 $(6 \times 3 = 18)$

- 19. Drying.
- 20. Anthocyanin.
- 21. Carotenoids.
- 22. Fermented foods.
- 23. Pasteurisation.
- 24. Freeze drying.
- 25. Jelly.
- 26. UHT-milk

SECTION - B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200WORDS: $(4 \times 6 = 24)$

- 27. How radiation is used in food preservation.
- 28. Explain the procedure for canning of apple.
- 29. Write the procedure for canning of beans.
- 30. Give an account on the chemical properties of flavonoids.
- 31. Write short notes on Cider.
- 32. How do you prepare orange jelly?

SECTION - C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000WORDS. DRAW DIAGRAMS WHEREVER NECESSARY $(2 \times 20 = 40)$

- 33. What are the principles of fermentation and factors controlling fermentation?
- 34. How do you prepare apple jelly and briefly discuss the factors affecting jelly preparation.
- 35. Write an essay on physical and chemical properties of carotenoids & flavonoids.
- 36. Write an essay on chemical preservatives.
