STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

(For candidates admitted during the academic year 2016-17& thereafter)

SUBJECT CODE: 16VF/VM/PT66

B.Voc. DEGREE EXAMINATION, SEPTEMBER 2020 FOOD PROCESSING AND QUALITY CONTROL.

COURSE PAPER TIME	: MAJOR CORE : EMERGING TRENDS IN FOOD PROCESSING AND TECHNOLOGY : 90 MINUTES MAX. MARKS: 50 MARKS		
	SECTION	$-\mathbf{A}$	(10 X 1= 10)
ANSWER A	LL QUESTIONS		
1. Minimally	e Correct answer: processing is a technique to provide oked food b. Freezing food c. Ready		above.
around	e separation across the membrane lead 00mV b) 50mV c) 10mV d) 5m	-	ference of
	sed briefly to a radiant energy source mma rays b) electron beam c) X-ray		
II State when	ther True or False:		
-	avelength of light wave for maximum d assisted freezing is used during Eva	· ·	
III Fill in the	e blanks:		
6. Cavitation	results in occurrence of	-	
7. Pressure ap	pplied in high pressure assisted freez	ing is	
8. Anti freeze	e proteins are also called as	·	
IV Answer in	n a sentence:		
9. Thermal h	ysteresis.		
10. Joule hea	ting		

SECTION - B

(10x2=20)

Answer any TWO questions:

- 11. Explain the process of MAP and its application in fruits and vegetables industry and give the importance of using Oxygen and Carbon-dioxide.
- 12. Is food irradiation acceptable? State reasons for your answer. Explain the process in detail and give its advantages and disadvantages.
- 13. Explain how the inactivation of microorganisms and enzymes is possible with the application of heat and ultrasound.
- 14. How are anti-freeze proteins obtained? What is the need to use antifreeze proteins? Explain its process and applications in the food industry.

SECTION - C

 $(20 \times 1=20)$

Answer any ONE question:

- 15. What is pulsed electric field? What are its applications in the food industry? Give a diagram for the equipment and process flow. What are its advantages and disadvantages?
- 16. Explain the process of vacuum cooling of foods. What are its advantages and limitations?