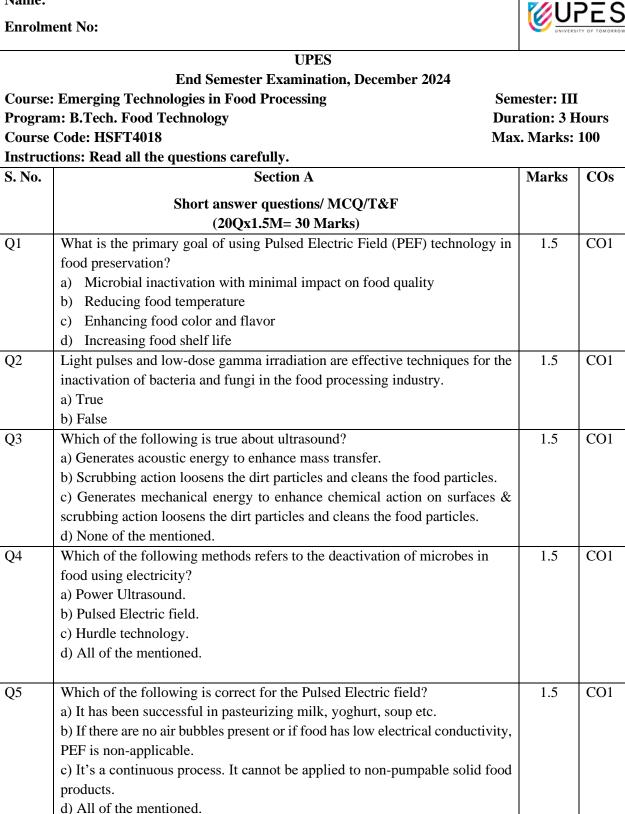
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Q6	 Statement 1: In Pulsed Electric field, food is kept between two electrodes and electricity is passed to deactivate microbes. Statement 2: Pulsed Electric field increases shelf life. a) True, False b) True, True c) False, False d) False, True 	1.5	CO2
Q7	 What is the primary advantage of Pulsed Electric Field (PEF) technology over traditional thermal processing methods? a) Results in faster processing times b) Preserves food quality attributes better than thermal methods c) Enhances food color and flavor d) Requires lower energy consumption 	1.5	CO2
Q8	Hannah heats refrigerated rice which has been devoid of moisture and becomes dry. She heats it in a microwave. It gets unevenly heated. What should she do?a) Water should be added for even heatingb) She should heat it using equipment that offers conduction or convectionc) None of the mentionedd) All of the mentioned	1.5	CO2
Q9	 Statement 1: In microwave heating, heat is not applied to the food item. Statement 2: Radiation doesn't even dry whereas microwave heating does. a) True, False b) True, True c) False, False d) False, True 	1.5	CO2
Q10	One disadvantage of microwave cooking is that the energy efficiency in this process is less. a) True b) False	1.5	CO2
Q11	 Statement 1: Microwave heating helps save electricity. Statement 2: The quality of the product in microwave heating is good hence rejections are less. a) True, False b) True, True c) False, False d) False, True 	1.5	CO3
Q12	 Microwave heating is good for puffed products. Why? a) The rate of heat transfer is less than the rate of moisture loss. b) The heat transfer in these food items takes place so fast that instead of shrinking of the food items due to loss of moisture content, they stay intact and hence puffed. c) None of the mentioned d) All of the mentioned 	1.5	CO5

Q13	Which of the following is NOT a part of the microwave heating system?	1.5	CO3
QIJ	a) Magnetron	1.5	005
	b) Anode		
	c) Cathode		
	d) None of the mentioned		
Q14	HPP is potentially a safe and revolutionary method for preserving and	1.5	CO3
Q14	sterilizing food or food products processed under	1.5	005
	a) very high pressure		
	b) very low pressure		
	c) very low pressurec) very low temperature		
	d) D) very high temperature		
Q15	Radiations are ineffective against	1.5	CO5
Q15	a) Viruses	1.5	005
	b) Bacteria		
	c) Yeasts		
	d) Molds		
Q16	Ultrasound used for food processing is	1.5	CO4
X ¹⁰	a) Low power	110	001
	b) High power		
Q17	Out of these which is an emerging technology?	1.5	CO4
	a) Tray drying		
	b) Osmotic dehydration		
	c) Pulsed light processing		
	d) Sun drying		
Q18	Pulsed electric field processing can only be applied to food.	1.5	CO3
Q19	Which process involves all directional heating?	1.5	CO4
	a) Radiofrequency heating		
	b) Microwave heating		
	c) Ohmic heating		
	d) Pulsed electric field		
Q20	Generally, heat generated depends on some parameters. It is directly	1.5	CO5
	proportional to		
	a) Time		
	b) Conductivity		
	c) Voltage		
	d) Distance between plates		
	Section B		
	(4Qx5M=20 Marks)		
Q 1	What is ohmic heating? How the food processing advantageous using this	5	CO4
	process?		
Q 2	What is pulsed light processing? Describe its process for microbial	5	CO5
· ·			
Q 3	inactivation. Describe the need for emerging processing techniques.	5	CO3

Q 4	What is the importance of high-pressure processing? Describe its process.	5	CO1			
	Section C					
(2Qx15M=30 Marks)						
Q 1	Rakesh owns a food processing unit for multiple food products.a) Write down different emerging technologies that can be used for a particular food product (Choose any one food). (5 marks)	15	CO5			
	 b) Describe the principle and working of four different emerging technologies that can be used for processing that food product. (10 marks) 					
Q 2	 Devendra owns a fruit and vegetable processing unit. Answer the following questions: a) Describe the process of pulsed electric field treatment. (5 marks) b) Describe the principle and application of cold plasma processing of food. (10 marks) 	15	CO4			
	Section D					
(2Qx10M=20 Marks)						
Q 1	What is ultrasound processing? Describe the different modes of ultrasound processing.	10	CO2			
Q 2	 Describe the following processing techniques (2 marks each): a) Infrared heating, b) Power ultrasound, c) Pulsed electric field, d) Dielectric heating e) Radio frequency heating 	10	CO3			