REV-01 BFST/01/03 2022/07

1X20 = 20

B.Sc. FOOD SCIENCE & TECHNOLOGY FOURTH FSEMESTER FOOD PACKAGING TECHNOLOGY

BFST-403 [REPEAT]

(Use Separate Answer Scripts for Objective & Descriptive)

Full Marks: 70 Duration: 3 hrs.

[PART-A: Objective]

Marks: 20 Time: 20 min.

Choose the correct answer from the following:

- Packaging is an essential part offoods.
 - a. Processing and distribution
- b. Heating and cooling
- c. Manufacturing and marketing
- d. All of them

- 2. LDPE stands for
 - a. Long distance polyethylene
 - c. Light density propylene ether
- b. Low density polyethylene
- d. None of the above
- 3. The outer box, case or wrapper that holds several packages and not come in direct contact with food is called
 - a. Primary package
 - c. Tertiary package

- b. Secondary package
- d. Quaternary package
- 4. The package which comes in direct contant with food is called

b. Secondary package

a. Primary packagec. Tertiary package

- d. Quaternary package
- 5. Nicolas Appert produced the means of thermally preserving food in hermetically sealed

 - a. Glass jarsc. Earthen pot

- b. Metal cans
- d. PET jar

- 6. What is WVTR?
 - a. Water to Vapour transient rate
 - c. Water Vapour transmission rate
- b. Water to vapour transfer rate
- d. Water to vapour total ratio
- 7. To measure permeability of film method is used.
 - a. Concentration increases method
- b. Detector film method
- d. Volume increase method
- c. Pressure increase method 8. Most important UV absorber is
 - a. Inorganic compound
 - c. Natural compound

- b. Organic compound
- d. None of the above
- 9. Ethylene production is high in

 - a. Bananac. Apricot

- b. Pineapple
- d. Orange

	10. Which of the following paper is stongest				
	a. Parchment paper		Glassine paper		
	c. Hard wood paper	d.	Kraft paper		
	11. FFS packaging stands for				
	a. Fold fill seal		Fold file seal		
	c. Form file seal	d.	Form fill seal		
	12. Which of the following is produced by mixing	g sulp	hite paper pulp with caustic soda		
	a. Glass		Cellulose films		
	c. Plastics	d.	None of the potions		
	13paper is lighter and weaker than su				
	a. Kraft		Sulphite		
	c. Both A and B	d.	Cellulose		
	14. For packaging of cheese spreads is				
	a. Metal cans		Glass bottles		
	c. HDPE	d.	All of these		
	15. Cellulose -polyethylene- cellulose laminate	ellulose -polyethylene- cellulose laminate is used infood products.			
	a. Ice creams		Baked goods		
	c. Cooked meats	d.	All of these		
	16. Which of the following paper is strong paper sacks for powders, flour, sugar, fruits and ve				
	a. Kraft	b.	Vegetable parchment		
	c. Both A and B	d.	Cardboard		
	17. From a packaging point of view very importa	ant pro	operty of coffee/tea is		
	a. Particle size		Bulk density		
	c. Density	d.	Moisture		
18. Which of the following food products can be packed in MAP?					
	a. Meat		Fish		
	c. Fruits	d.	All of the above		
	19. Outermost layer of tetrapak is				
	a. Polyethylene	b.	Aluminium		
	c. Cardboard	d.	None of the options		
	20. The egg packs and the trays used for apples a				
	a. Laminated paperboard		Moulded pulp containers		
	c. Crafted paperboard		Oldest form of paperboard pack		
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(PART-B: Descriptive)

Time: 2 hrs. 40 min. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	Write the notes on Vacuum packaging and Shrink packaging.	5+5=1
2.	Discuss about the types of packaging. Explain the packaging material.	5+5=1
3.	Give an detailed account on the following : a. Aseptic packaging b. Modified Atmosphere Packaging	5+5=10
4.	Explain the different techniques used for measurement of permeability in packaging material.	10
5.	Write an essay on packaging tests.	10
6.	"Light and oxygen affects the quality of food." Justify	10
7.	Discuss about the packaging material use for cereals and pulses.	10
8.	Specify packaging material needed for milk and milk products.	10

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