REV-01 BFST/08/13

a. 45

c. Amylase

2024/05

SET

B.Sc. FOOD SCIENCE & TECHNOLOGY SECOND SEMESTER

TECHNOLOGY OF FRUITS AND VEGETABLE PROCESSING REST-201

BFST-201 [USE OMR SHEET FOR OBJECTIVE PART]

Du	ration: 3 hrs.		Full Marks: 70		
		(Objective)			
Ti	me: 30 mins.		Marks: 20		
CI	noose the correct answer from	the following:	1×20=20		
1.	At which pH fruits and vegetables are divided into acidic and non-acidic for thermal processing?				
	a. 6.5 c. 5.5	b. 4.5 d. 7.5			
2.	Monosodium glutamate (MSG) i	s a			
	a. Flavor enhancerc. Bleaching agent	b. Antioxidantd. Stabilizer			
3.	Sulphur dioxide cannot be used a. Characteristic flavor c. Liberation of CO ₂	to preserve naturally colored ju b. Characteristic a d. Bleaching actio	iroma		
4.	BHA is a a. Antioxidant c. Pesticide	b. Flavor enhanced. Permitted color			
5.	A substance intentionally added a. Food adulterant c. Food additive	that preserves flavor and impr b. Food material d. Food contamin			
6.	Statement 1: Stabilizers and emulsifiers are certain examples of food additives. Statement 2: Antioxidant is a class of food additives.				
	a. True, False c. False, False	b. True, True d. False, True			
7.	Fruit juice beverages are general from	y bottled with carbon dioxide	content varying		
	a. 1-5 g/L c. 2.0 g/L	b. 6-8 g/L d. 2.5 g/L			
8.	How much percentage of sugar	s necessary for the preservatio	n of fruits?		

b. 40

d. 66

d. Protease

10.	Frozen storage is generally operated at ten a. -0° C c. -50° C	nperature of b18°C d60°C
11.	Which of the following is the process of co a. Oxidation c. Fermentation	nverting sugar into alcohol? b. Bleaching d. Pasteurization
12.	How much percentage of fruit pulp should a. 15 c. 30	be in jam? b. 25 d. 45
13.	What is the amount of chlorine is used in va. 100 ppm c. 300 ppm	vashing the fruits? b. 200 ppm d. 400 ppm
14.	Jam, jelly and marmalade is based on conc a. 20 c. 70	entrating fruits to nearly%solids. b. 30 d. 100
15.	Which of the following acid will have high a. Malic acid c. Tartaric acid	ner bacteriostatic effect at a given pH? b. Citric acid d. Acetic acid
16.	Bacterial growth is generally impossible w a. 0.60 c. 0.80	hen water activity reduces belowb. 0.70 d. 0.90
17.	In dehydration of vegetables, the temperata. 60-66°C c. 66-71°C	ture is increased up to b. 50-56°C d. 75-81°C
18.	Which state gives the highest productivity a. Kerala c. Karnataka	of coconuts? b. Andhra Pradesh d. Meghalaya
19.	Pomegranate is fruit. a. Non-climacteric c. Both a & b	b. Climactericd. None of the above
20.	What is the ratio of sugar to fruit when ma a. 1:2 c. 2:1	aking jam? b. 1:1 d. 2:3
	<u></u>	

USTM/COE/R-01

$\left(\underline{\text{Descriptive}} \right)$

Time: 2 hr. 30 mins.					
	[Answer question no.1 & any four (4) from the rest]				
1.	Give the flow-sheet for manufacturing of tomato ketchup & potato chips.	5+5=10			
2.	What are unfermented fruits beverages? Give flow-sheet for processing of pineapple juice and squash.	2+8=10			
3.	Enumerate briefly the different steps followed usually in the production of pineapple jam. Describe the role of different ingredients used in the manufacture of jelly.	5+5=10			
4.	Explain in detail the different types of dryers utilized for drying/dehydration of fruits and vegetables.	10			
5.	What is the difference between sorting and grading in postharvest handling? Briefly explain climacteric and non-climacteric fruits. Give two examples.	5+5=10			
6.	a) Define: (i) Food adulteration (ii) Freeze drying (iii) Blanching (iv) Thawing (v) Thermal death time of bacteria b) How artificial ripening helps the marketability of mature harvested fruits?	5+5=10			
7.	Write short notes on <i>any two</i> from the following: a) Hot pack or Hot fill b) Air blast freezing c) Brominated vegetable oils	5+5=10			
8.	Describe about different constraints faced by rural families during processing of fruits and vegetables.	10			