Name :				Class :		Dat e:
Chapter 2	0 - Cons	sumer Co	oncerns ab	out Foods and Water		
1. The abili	ty of a sul	ostance to	harm a livin	g organism is known as w	hich of the following terms	s?
		a.	hazaro	1		
		b.	toxici	ty		
		c.	risk le	evel		
		d.	safety	level		
ANSWER:						b
2. What is t	he term fo	or the mea	sure of the p	robability and severity of	harm?	
		a.		risk		
		b.		safety		
		c.		hazard		
		d.		toxicity		
ANSWER:						a
3. Which of	f these ter	ms descril	bes the possi	bility of harm from norma	al use of a substance?	
		a.	hazard	·		
		b.	toxicity			
		c.	bioinsecuri	ty		
		d.	food insect	ırity		
ANSWER:						a
4 What gov	vernment	agency is	charged with	n protecting the safety of (anada's food supply?	
_	Environn		-	i protecting the safety of	Zanada s 100d suppry:	
			d Inspection	Agency		
			nd Security A	-		
		•	•	d Safety and Hazards Age	encv	
ANSWER:	1110 1 211	Suo Comm		a surety and mazaras rig.		ь
mion En.						Ü
5. Which of	f the follo	wing is th	e internation	al agency that has adopted	d standards to regulate the ι	se of pesticides?
		8	a.	FAO		
		1	b.	FDA		
		(c.	CDC		
		(d.	USDA		
ANSWER:						a
6. Accordin	g to the C	Canadian I	Food Inspect	on Agency, which of the	following is the leading foo	od safety concern?
	a.	food add	_	- ·	-	-
	b.	pesticide	residues			
	c.	foodborn	e illnesses			
	d.	environm	nental contan	ninants		
ANSWER:						c

7. Two or more cases of a similar illness resulting from the consumption of a common food is termed which of the

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Name :				Class :	Dat e:
Chapter 20) - Cons	sumer Co	oncerns about Foo	ds and Water	
following?					
C	a.	a	disease		
	b.	a	n outbreak		
	c.	a	n epidemic		
	d.	a	toxic incidence		
ANSWER:					b
8. According every year?	g to Cana	dian Publ	ic Health Agency exp	perts, how many people in th	ne Canada experience foodborne illness
		a.	1 million		
		b.	2 million		
		c.	4 million		
		d.	8 million		
ANSWER:					c
9. Which of	the followa.		otoms is a severe syn r lasting 8 hours	nptom of foodborne illness th	hat requires medical attention?
	b.	abdo	ominal cramps		
	c.	bloo	dy diarrhea		
	d.	vom	iting		
ANSWER:					c
10 Which o	f the follo	owing mic	erobes is most likely t	to cause illness that is fatal in	n high-rick individuals?
10. WHICH O	a.	_	a intestinalis	to eause miness that is fatal in	i ingn-risk individuals:
	b.		lococcus aureus		
	c.		a monocytogenes		
	d.		dium perfringens		
ANSWER:			1 0 0		c
11. Which o bacteria?	f the follo	owing is N	NOT among the most	common symptoms of food	-borne infection caused by Salmonella
		a.	fever		
		b.	cramps		
		c.	diarrhea		
		d.	double vision		
ANSWER:					d
12. Which o	f these or	ganisms i	s responsible for pro	ducing the most common foo	od toxin?
	a.	Escherio		5	
	b.	Vibrio v	ulnificus		
	c.		ococcus aureus		
	d.	Lactoba	cillus acidophilus		
ANSWER:					c

Name :		Class :	Dat e:
Chapter 20 - Consur	mer Concerns about Foo	ods and Water	
a. addition of allb. illness producc. addition of ale	ing is an example of food in kaline and acidic agents to f red by acute overconsumption cohol-containing beverages red from ingestion of food c	oods on of high-fat foods	xins
ANSWER:			d
b. It is caused by it c. It most often or	and victims usually recovering and victims usually recovering strong food contaminate curs from eating foods that	r completely. ted with a combination of at were stored under aerobic c by a microbe rather than ing	onditions of high pH.
a. A primary syb. A full recovec. It is caused be	ing is a characteristic of bot emptom is diarrhea. ery may take years. by the organism <i>Staphylococ</i> at produced in foods stored	ccus aureus.	b
16. The industrial application these processes?	cation of heat to inactivate n	nost but not all bacteria in a	food is commonly known as which of
b. c.	sterilization pasteurization		
d. <i>ANSWER:</i>	depathogenation		c
17. What system was de food contamination and		ulatory agencies and the foo	d industry to help identify and/or control
	-Forty-One-Forty rule		
	dling Certification Program		
	Analysis Critical Control Poi		
d. North Ar ANSWER:	nerican Residue Monitoring	g Program	c
18. Which of these pairs most foodborne illness-		ism that causes most foodbo	orne illness and the organism that causes

a.

b.

c.

Listeria and Yersinia

Salmonella and Listeria

Giardia and Campylobacter

Name :			Class :	Dat e:		
Chapter 2	hapter 20 - Consumer Concerns about Foods and Water d. Campylobacter and Salmonella NSWER: b. A patient with a high temperature complains of headache, stomach ache, fever, and vomiting. Upon questioning, he limits to eating several raw eggs the day before. The most likely organism causing these symptoms is which of the lllowing? a. Escherichta coli b. Salmonella c. Clostridium perfringens d. Campylobacter jejuni NSWER: b. O. Clostridium botulinum poisoning is a hazard associated with which of the following foods? a. fresh carrots b. rotting vegetables c. undercooked poultry d. improperly canned vegetables VSWER: d. A child is brought into the emergency room with breathing difficulties. He also has difficulty swallowing and eaking. The mother mentions that he ate some home-canned beans yesterday. You suspect microbiological food dissoning. The most likely toxin is which of these? a. campylobacteria toxin b. giardiasis toxin c. salmonella toxin d. botulinum toxin NSWER: d. Which of the following is the major food source for transmission of Campylobacter bacteria? a. raw poultry b. uncooked seafood c. imported soft cheeses d. undercooked beef hot dogs NSWER: a thick of the following foods are associated with illness from Salmonella?					
	d.	Campylobacter and Salmonella				
ANSWER:		Ty		ь		
	a.	Escherichia coli				
	b.	Salmonella				
	c.	Clostridium perfringens				
	d.	Campylobacter jejuni				
ANSWER:				b		
20. Clostrio	dium bo	-	ated with which of the fol	lowing foods?		
	a.	fresh carrots				
	b.	rotting vegetables				
	c.	undercooked poultry				
	d.	improperly canned vegetables				
ANSWER:				d		
speaking. T	The moth The mo a.	her mentions that he ate some homest likely toxin is which of these? campylobacteria toxin	_	•		
	b.					
AMOUNTED	d.	botulinum toxin				
ANSWER:				d		
22. Which	of the fo	_	transmission of Campyle	bacter bacteria?		
	b.					
		•				
	d.	undercooked beef hot dogs				
ANSWER:				a		
23. Which	of the fo	ollowing foods are associated with il	lness from Salmonella?			
	a.	raw vegetables				
	b.	pickled vegetables				
	c.	home-canned vegetables				
	d.	raw meats and poultry				
ANSWER:				d		
24. Of the f	food pro	oducts sold in Canada, approximately a. 10 percent	what percentage is produ	uced in Canada?		

Name :				Class :	Dat e:
Chapter 20	- Consun	ner Conc	erns about Food	s and Water	
		b.	30 percent		
		c.	50 percent		
		d.	80 percent		
ANSWER:			1		b
25. Which of t	the followi	ng is espe	ecially susceptible to	microbial growth?	
a.			in the freezer	Č	
b.	fruit j	uice store	d in the refrigerator		
c.	groun	d meat	_		
d.	_	d meat			
ANSWER:					c
26. Which of the		-	would most likely 1	result from placing cooked h	namburger patties on the same plate that
a	. flav	our declin	ation		
b	o. mea	t juice ret	ention		
c	fat c	lrippings (exudation		
d	l. mici	robial cros	ss-contamination		
ANSWER:					d
27. What is the eating food?	e recomme			ne for washing hands with v	warm water and soap before preparing or
	a.	5 to	10 seconds		
	b.	20 s	seconds		
	c.	30 t	to 60 seconds		
	d.	2 m	inutes		
ANSWER:					ь
knife to cut ratelled to the patro	w meat pro	oducts as t restaurant			onal chain restaurant had used the same terms most accurately describes what
a.	contamina				
b.	cross-con				
C.		-	ical control points		
d.	ınappropr	iate moni	toring of food tempe	eratures	
ANSWER:					b
29. The Canac		nspection	Agency recommen	ds that "safe handling instru	actions" appear on which of the
-	a.	raw gro	ound walnuts		
	b.	cooked	deli salami		
	c.	smoked	l fish		
	d.	fresh gr	round poultry		

Name :		Class :	Dat e:
Chapter 20 -	Consumer Con	ncerns about Foods and Water	
ANSWER:			d
30. Why is gro	und meat more su	sceptible to microbial contamination	n than non-ground meat?
	a. It is not in	spected as often.	-
1	b. It is usual	ly undercooked.	
	c. It has a hi	gher fat content.	
(d. It has mor	e surface area.	
ANSWER:			d
workers' disreg a. keepin b. servin c. keepin	gard for the "danging the freezer at 1 g raw seafood wing beef patties on	er" zone. Which of the following is	
32. What count	try accounts for n	ost of the reported cases of mad cov	w disease?
	•	nina	
	b. H	ong Kong	
	c. U	nited States	
	d. U	nited Kingdom	
ANSWER:			d
33. In cows inf	ected with mad c	ow disease, which of the following to	tissues is generally free of the infectious agents?
	a.	brain	
	b.	liver	
	c.	intestines	
	d.	muscle	
ANSWER:			d
		property associated with the safe coor indicative of "doneness."	oking of hamburgers?
b. Burge	ers should be coo	ked to at least medium-rare.	
_		xed to an internal temperature of 60°	°C.
d. Some	burgers will turn	brown before reaching the recommo	nended temperature.
ANSWER:	-	-	d
35. Which of th	he following is a	eature of the H1N1 virus?	
	I1 is a strain of E .		
b. H1N	I1 can be transmit	ted by eating infected pork.	

c. H1N1 is considered only a mildly contagious viral infection.

d. H1N1 is spread mainly via coughs and sneezes of infected individuals.

Chapter 20 - Consumer Concerns about Foods and Water ANSWER: a. The fish becomes tenderized. b. Botulinum toxin becomes inactivated. c. The fish becomes completely safe to eat raw. d. Mature parasitic worms are killed. ANSWER: a. 51°C b. 60°C c. 71°C d. 90°C ANSWER: c. 10 the following is the most appropriate method to thaw turkey? a. in the refrigerator b. at room temperature c. on top of a warm oven d. under very low heat in the oven ANSWER: a. chicken b. sprouts c. legumes d. oysters ANSWER: d. 40. 40. Which of the following practices is safest for minimizing microbial contamination of prepared foods? a. Store food in a controlled atmosphere of chlorine bleach vapours. b. Restrict the food's exposure between 4°C and 60°C to a maximum of one month. ANSWER: c. Restrict the food's exposure between 4°C and 60°C to a maximum of one month. ANSWER: c. Uppe B	Name :		Class :	Dat e:	
36. What is a benefit derived from the commercial freezing of fish? a. The fish becomes tenderized. b. Botulinum toxin becomes inactivated. c. The fish becomes completely safe to eat raw. d. Mature parasitic worms are killed. ANSWER: a. 51°C b. 60°C c. 71°C d. 90°C ANSWER: c. The fish becomes completely safe to eat raw. a. 51°C b. 60°C c. 71°C d. 90°C ANSWER: c. The fish becomes completely safe to eat raw. a. in the refrigerator b. at room temperature c. on top of a warm oven d. under very low heat in the oven ANSWER: a. chicken b. sprouts c. legumes d. oysters ANSWER: d. 40. Which of the following practices is safest for minimizing microbial contamination of prepared foods? a. Store food in a controlled atmosphere of chlorine bleach vapours. b. Restrict the food's exposure at room temperature to a maximum of four to six hours. c. Restrict the food's exposure at room temperature to a maximum of two hours. d. Store food under air-tight conditions at a temperature of a maximum of one month. ANSWER: c. 41. Consumption of raw oysters can cause which type of hepatitis? a. type A	Chapter 20 - Consumer	Concerns a	bout Foods and Water		
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a. type A	a. Store food in a conb. Restrict the food'sc. Restrict the food'sd. Store food under ai	trolled atmosp exposure at ro exposure betw	there of chlorine bleach vapours. om temperature to a maximum of een 4°C and 60°C to a maximum	f four to six hours. n of two hours. maximum of one month.	
a. type A	41. Consumption of raw over	sters can cause	which type of henatitis?		
	Combamption of faw by		• • •		
·/r·=			· -		
c. type C			* *		

d.

type D

Name :			Class :	Dat e:
Chapter 20 - C	onsumer C	oncerns abo	ut Foods and Water	
ANSWER:				a
a. Freezingb. Some hoc. At least	g for 24 hour ot sauces can ten species of	s kills viruses kill viruses, b of bacteria in ra	e of raw oyster consumption? in oysters. at not bacteria, in oysters. aw oysters can cause serious illness as is effective in preventing foodb	
a. usingb. thawingc. using	hands to mix ng meats in t a meat therm	t foods he refrigerator nometer	ncrease the risk of foodborne illn ands, utensils, and countertops	aess?
44. What is the m	ninimum reco	ommended safe a. b. c. d.	temperature to heat leftovers? 62°C 68°C 75°C 83°C	c
45. Which of the a. b. c. d.	mustard whipped hollandai	cream		
ANSWER:	villegal a	na on salaa ar	assing	c
46. What is the sa and tuna salad?	afe refrigerate a. b. c. d.	or storage time 1 to 2 da 3 to 5 da 1 week 2 to 4 we	ys ys	cken, opened packages of luncheon meats,
ANSWER:	u.	2 to 4 we	eks	ь
47. Which of the a. b. c. d.	in the at room in a mi	ethods of thaw refrigerator n temperature icrowave oven cool running w	ing meats or poultry increases hea	alth risk?

		Class :	Dat e:
Chapter 20 - Con	sumer Conc	erns about Foods and Water	
ANSWER:			b
a. Most otherb. There is a lc. There is a l	countries have higher number of lack of immuni	no food safety standards or awareness. of microbes that contaminate food in other ty to pathogens that are present in other pa ed foods are consumed in other countries.	r countries.
19. What are the cha	ances of contra	cting diarrhea while travelling to other cou	untries?
19. What are the one	a.	1 in 2	maros.
	b.	1 in 10	
	c.	1 in 100	
	d.	1 in 1000	
ANSWER:			a
c. sulphites t	used to retard g	I formation of nitrosamines rowth of pathogenic organisms ue radiolytic particles when the food is ov	verheated a
		urning from overseas travel to a developing ch of the following foodborne organisms is	
stomach cramps and			is most fixely responsible for these
stomach cramps and symptoms?	Listeria mo	onocytogenes	is most fixely responsible for these
stomach cramps and symptoms? a. b.	Listeria mo Clostridiun	onocytogenes n botulinum	is most fixely responsible for these
stomach cramps and symptoms? a. b. c.	Listeria mo Clostridiur Clostridiur	onocytogenes n botulinum n perfringens	is most fixely responsible for these
stomach cramps and symptoms? a. b.	Listeria mo Clostridiun	onocytogenes n botulinum n perfringens	d
stomach cramps and symptoms? a. b. c. d. ANSWER:	Listeria mo Clostridiun Clostridiun Shigella ba	onocytogenes n botulinum n perfringens	d
stomach cramps and symptoms? a. b. c. d. ANSWER:	Listeria mo Clostridiun Clostridiun Shigella ba owing organism	onocytogenes n botulinum n perfringens acteria as, which one is responsible primarily for c	d
stomach cramps and symptoms? a. b. c. d. ANSWER: 52. Among the followa.	Listeria mo Clostridiun Clostridiun Shigella ba owing organism Vibrio Escherich	onocytogenes n botulinum n perfringens acteria as, which one is responsible primarily for c	d
stomach cramps and symptoms? a. b. c. d. ANSWER: 52. Among the followa. b.	Listeria mo Clostridiur Clostridiur Shigella ba owing organism Vibrio Escherich Staphyloc	onocytogenes n botulinum n perfringens neteria as, which one is responsible primarily for contactions	d

a. Drink all beverages without ice.b. Drink bottled carbonated beverages.

c. Boil the local water before use to kill microbes.

Name :		Class :	Dat e:
Chapter 20 - Cons	umer Conce	rns about Foods and Water	
d. Eat fruits and ANSWER:	l vegetables ra	w with their skins to decrease risk from	n wash-water contamination.
-	~ ~	,	he end of your talk, an audience member e exposed to radioactive food. How should you
_	chniques do no	ot produce radioactive foods.	
	-	diated foods will be destroyed by cook	king the foods.
c. There is only meats.	cause for cond	eern of radiation when treating foods st	uch as milk, grapefruits, eggs, and high-fat
d. Radioactive f the WHO.	oods have bee	n approved for consumption by the Ca	nadian Medical Association, the FAO, and
ANSWER:			a
55. Which of the follo	_	as NOT been approved for irradiation i	in Canada?
	a. 1-	potatoes	
	b.	milk	
	C.	wheat	
ANSWER:	d.	spices	b
a. prol b. boil	onged pasteur ing for exactly	ten minutes	rocery stores at room temperature?
	high temperat		
	bination irradi	ation/pasteurization	
ANSWER:			c
	-	red method for preserving milk?	
	-	avours in milk.	
		fat content of milk.	
		at killing microorganisms	
	i results in hig	n amounts of radioactive food particles	
ANSWER:			a
58. Which of the follo	owing is a com UHT trea	mon term to describe the process of in	radiation?
а. b.	radura tre		
о. с.	cold past		
d.	-	ectron beam	
ANSWER:	puiscu en	outon otam	c
211 (D) / LIK.			C
59. Which of the follo	owing is a feat	ure of irradiation?	

a. Irradiation of fresh vegetables and fruit decreases shelf life.

Name :		Class :	Dat e:
Chapter 20 - C	onsumer Concerns about	Foods and Water	
b. The Wor	ld Health Organization has no	ot approved food irradiation.	
	•	s must indicate treatment by irradia	ation.
	•	commercially prepared foods that	
ANSWER:			d
 a. cooking 	g vegetables in water rather th	-	nin loss?
	g vegetables before cutting ra	ure rather than in the refrigerator	
	-	tainer rather than an airtight contain	iner
ANSWER:	eut vegetables in an open con	trainer rather than an arright contain	ь
mvov, Erc.			· ·
61. Which of thes a b	trace minerals fat-soluble vitamins	vulnerable to losses during food ha	andling and preparation?
d	. water-soluble vitamin	s	
ANSWER:			d
62. The extent to a. b. c. d. ANSWER:	which an environmental cont its persistence its solanine content its soil absorption efficiency its water-solubility characte	· /	primarily on which of these factors?
63. Which of the a. b. c. d.	following are examples of he molybdenum and magnes iron and chromium calcium and iron mercury and lead	*	
ANSWER:	mercury and read		d
a. cookingb. ingestingc. ingesting	foods for prolonged periods in ground containing high amount ground supplements containing		n salts
65. The increase if the following?	n the concentration of contan	ninants in the tissues of animals hig	gh on the food chain is termed which of

bioaccumulation

Name	Class :	Dat e:
Chapter 20 - Consu	umer Concerns about Foods and Water	
b. hyp	perconcentration	
7 1	lutionary containment	
	ctional high-level accumulation	
ANSWER:		a
66. Which of the follo	wing best describes organic halogens?	
a. 1	heavy metals	
b. s	safe additives	
	toxic chemicals	
	component of most proteins	
ANSWER:		c
67. What is the primar	ry source of dietary mercury?	
a.	seafood	
b.	legumes	
c.	unfiltered water	
d. <i>ANSWER:</i>	undercooked poultry	a
68. Of the following ty women?	ypes of seafood, which should be consumed in the smallest amount by p	oregnant and lactating
a.	shrimp	
b.	canned light tuna	
c.	pollock and catfish	
d.	white albacore tuna	
ANSWER:		d
	wing is a characteristic of mercury content in fish?	
•	ish are contaminated with mercury.	
	ntains the highest amount of mercury.	
-	have less mercury due to the dilutional effect of size.	
	d fish typically have less mercury than wild-caught fish.	
ANSWER:		d
	wing is a characteristic of heavy metals in the Canadian food supply? n Canadian lakes and rivers are mercury-free.	
_	for commercial sale are monitored for mercury levels.	
	ould limit their consumption of fish due to heavy metal contamination.	
	d levels of heavy metals are above acceptable levels in Canadian childre	en.
4NSWFR	2.2.2.2. 31 Heavy means are noove neceptable tevels in Canadian children	 h

71. Your friend Mark believes that consuming natural organic foods will eliminate toxins from his diet. You warn Mark that not all natural foods are free from toxins. The example you provide could be solanine found commonly in which of

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Name :			Class :	Dat e:
Chapter 20 -	Consumer	Concerns about Foo	ods and Water	
these foods?				
		a. beets		
		b. broccoli		
		c. potatoes	}	
		d. corn		
ANSWER:				c
72. What is a fa	actor related t	to solanine concentratio	n in potatoes?	
a	. contan	nination		
b	. irradia	tion malfunction		
c	. soil he	eavy metal content		
d	l. improj	per storage conditions		
ANSWER:				d
73. Which of th	ne following i	s characteristic of solar	nine in foods?	
a.	It is not destr	royed by cooking.		
b.	It enhances a	bsorption of lead.		
c.	It antagonize	es the thyroid gland.		
d.	It is destroye	ed when potatoes start to	sprout.	
ANSWER:				a
74. Which of th	ne following i	is a feature of naturally	occurring food toxicants?	
	_	deadly cyanide compor	_	
b. The to	xin solanine i	n potatoes is inactivate	d by cooking.	
c. The to	xic laetrile in	certain fruit seeds is a	moderately effective cancer trea	atment.
d. Mustar	rd greens and	radishes contain compo	ounds that are known to worser	a cholesterol problem.
ANSWER:		-		a
75. Many count following toxic		he varieties of commerc	cially grown lima beans due to	the seed's content of which of the
3	a.	cyanide		
	b.	solanine		
	c.	goitrogens		
	d.	hallucinogens		
ANSWER:				a
76. Which of th	ne following i	is an example of a natur	ral toxicant and its food source?	
	_	anine in mushrooms		
	b. goi	trogen in cabbage		
	c. cya	nogen in potatoes		
		ylamide in tomatoes		
ANSWER:	·			b

Name :			Class ::	Dat e:
Chapter 20	- Con	sumer Concerns about F	oods and Water	
77. What term according to la			el of a residue that is allowed in	a food when the pesticide is used
	a.	toxicity level		
	b.	tolerance level		
	c.	risk concentration		
	d.	optimum concentration		
ANSWER:				b
78. Which of a.		ganizations is responsible fo ealth Canada	or setting tolerance guidelines f	for the use of a pesticide on food?
b.	C	nadian Food Inspection Age	ency	
c.	E	vironment Canada		
d.	P	sticide Regulation Agency		
ANSWER:				a
79. What orga		n is responsible for enforcin ealth Canada	g the tolerances that are set for	a pesticide on food?
b.	C	nadian Food Inspection Age	ency	
c.	E	vironment Canada		
d.	P	sticide Regulation Agency		
ANSWER:				b
80. The gover		monitors pesticides by samp ood shipments for all pesticion	ling using which of the following	ng criteria?
b.	all f	ood shipments for some pest	icides	
c.	som	e food shipments for all pest	icides	
d.	som	e food shipments for some p	esticides	
ANSWER:				d
81. What is th	Pes	t Management Regulatory A	•	sessment of pesticide exposure?
b.		icant Monitoring Program		
c.		d Safety and Health Program		
d.	Die	t and Market Analysis Repo	rt	
ANSWER:				a
		_	ive at minimizing pesticide exp	osure?
	_	vaxed fruits and vegetables		
	_	way the outer leaves of leaf	•	
	_	ife to peel citrus fruits rather	•	
	owing	way the fats and oils in pan	drippings from cooked meats	
ANSWER:				a

Name :		Class :	Dat e:
Chapter 20 - Consu	mer Concerns about Fo	oods and Water	
a. has been gb. contains g	allowed to label a food progrown locally genetically engineered ingrenation with fertilizer made from		ch of the following criteria?
	contain ingredients that hav	•	d
a. Pesticide resideb. Pesticides thatc. Pesticide residec. vegetables.	ues on organic foods are sir are used on organic foods a ues are substantially reduce	esticide use on organic foods? nilar to those on conventionally are easier to remove because of d by the use of unprocessed and n given an organic foods diet for	their greater water solubility.
ANSWER:			d
85. Most food additive a. b. c. d. ANSWER:	s are classified as which of emulsifiers preservatives colour enhancers bleaching agents	the following?	b
a. Food andb. Public Hec. Canadian	cruments regulates the use of Drugs Act and Regulations alth Agency of Canada Rul-Pesticide Committee Record Food Inspection Agency Rule 1	es and Regulations nmendations	a
87. What is the origin of ingested by man or ani a. b. c. d.		re shall be deemed to be safe if	it is found to induce cancer when
ANSWER:	OSDA Bunctin of 1902		b
88. What is the name of a. b. c. d.	of the rule that modifies the GRAS list Bonnie Clause de minimis rule no-risk standard	original meaning of the Delane	ey Clause?

Name :		Class :	Dat e:
Chapter 20 - Consum	ner Concerns about Foo	ds and Water	
ANSWER:			С
89. What is the term that known to cause any harn		most additives in foods at le	evels 100 times BELOW the lowest level
a.	toxicity range		
b.	zone of hazard		
c.	acceptable area		
d.	margin of safety		
ANSWER:			d
90. Which of these is the	classification given to a sul	ostance put into food to give	it a certain colour?
a.	indirect additive		
b.	incidental additive		
c.	peripheral additive		
d.	intentional additive		
ANSWER:			d
91. Which of the followi	ng substances in the diet wo	ould typically have the lowes	st margin of safety?
a.	table salt		
b.	pesticides		
c.	preservatives		
d.	colour additives		
ANSWER:			a
_	ories is assigned to additive indirect	s put in foods after a rationa	l decision-making process?
a. b.	incidental		
0. C.	intentional		
d.	contaminants		
ANSWER:	contammants		c
93. Salt is used as antimi	_	ise it prevents microbial use	of which of these food contents?
a.	fat		
b.	water		
c.	protein		
d.	carbohydrate		
ANSWER:			b
94. In searching for a rec	eipe for homemade jelly, you	a come across a recipe by a	notable food scientist who emphasizes th

- 94. In searching for a recipe for homemade jelly, you come across a recipe by a notable food scientist who emphasizes the importance of the correct amount of sugar in the jelly, as it serves as the product's antimicrobial agent. What is the rationale behind this statement?
 - a. Sugar is not a sustainable food source for most microbes.
 - b. Sugar phagocytizes the microbes that are present in the jelly.

Name :		Class ::	Dat e:
Chapter 20 - Con	sumer Concerns about Fo	ods and Water	
c. Sugar ca	ptures water and makes it unav	vailable for microbes.	
d. Sugar wa	ards off offending bacterial age	ents present in the jelly.	
ANSWER:			c
95. Of the following	food additives, which is used	most widely as an antimicrobia	al agent?
a.	sugar		
b.	saccharin		
c.	sodium nitrite		
d.	sodium propionate		
ANSWER:			a
_	ary reason that nitrites are allo s improve consistency.	wed to be added to certain mea	at products?
	s stabilize the vitamin content	of meat.	
	s significantly enhance the fla		
	s inhibit the formation of botu		
ANSWER:			d
97. Which of these s	ubstances is an antimicrobial a a. MSG	agent?	
	b. sulphites		
	c. tocopherol		
	d. sodium nitrate		
ANSWER:			d
	meats have which of the follow	wing effects on the meat?	
	oftening of the texture reservation of the colour		
•	roduction of a rancid flavour		
-	revention of mineral degradation	On.	
ANSWER:	evention of inneral degradati	on	ь
99 When a slice of f	fresh annle turns a brown colo	ur this is most likely the result	of which of the following processes?
	lation	ar, this is most interf the result	or which or the rone wing processes.
	ydration		
•	robial contamination		
d. ethy	lene oxide treatment during ri	pening	
ANSWER:	2		a
100. Which of the fo	llowing substances added to f	oods inhibits the formation of b	potulinum toxin?
a	DIL		
b	. nitrites		
c	. table salt		

Page 17

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Name :			Cla :	ass	Dat e:
Chapter 2	20 - Co	onsumer (Concerns about Foods and W	vater	
		d.	sodium ascorbate		
ANSWER:					b
101. What	is the p	rimary reas	on why sulphites are added to foo	ods?	
	a.	to improv			
	b.	-	oxidation		
	c.		the consistency		
	d.	to enhanc	e B vitamin absorption		
ANSWER:					b
102. Which	of the	se vitamins	undergoes the most destruction i	n foods preserved with sulphite	s?
		a.	folate		
		b.	thiamin		
		c.	riboflavin		
		d.	ascorbic acid		
ANSWER:					Ь
103. Which	n of the	following	s an example of why sulphite is t	used in foods?	
a.	to cur	e meats			
b.	to pre	vent oxidat	ion of wine		
c.	to em	ulsify the c	omponents of mayonnaise		
d.	to imp	rove nutrit	ional quality by spraying onto ve	getables	
ANSWER:					ь
104. Which	n one of	the follow	ing substances does NOT have ar	ntioxidant properties?	
		a.	ВНА		
		b.	BHT		
		c.	solanine		
		d.	vitamin E		
ANSWER:					c
105. Which	n of the	following	properties is shared by vitamins C	C and E, BHA and BHT, and sul	phites?
	a.	flavo	ur enhancer		•
	b.	antin	nicrobial agent		
	c.	antio	xidant activity		
	d.	incid	ental food additive		
ANSWER:					c
106. Which	n of the	following	s a characteristic of BHT?		
		d antimicro			
b. It i	is a con	nmon food	colorant.		

c. It contributes significantly to the total additive intake from the diet.

d. It decreases cancer formation when given in large amounts to animals exposed to carcinogens.

name :				: :	e: e:	
Chapter 20) - Cor	nsumer Co	oncerns about Foods	and Water		
ANSWER:					d	
107. The fla	vour en	hancer MS	G is a dietary source of	which of the following s	substances?	
		a.	sulphite			
		b.	sodium			
		c.	acrylamide			
		d.	bicarbonate			
ANSWER:					b	
108. What is	s the lar	gest single	group of food additives?	?		
	a.	flavour	ing agents			
	b.	artificia	al sweeteners			
	c.	antimic	crobial agents			
	d.	artificia	al colouring agents			
ANSWER:					a	
109. Which	of the fo	ollowing ac	dditives is a flavour-enha	ancing food additive?		
	a.	ВНТ				
	b.	beta-c	arotene			
	c.	sodiur	m propionate			
	d.		sodium glutamate			
ANSWER:			-		d	
110 Which	of the fo	allowing fe	eatures applies to monose	odium olutamate added	to food?	
a.		_	nt flavour called umami	odiam grammate added	1004.	
b.		-	gic reaction in some peop	ple		
c.		_	just "sodium" on ingredi	•		
d.			but not bitter or sour tast			
ANSWER:					a	
111 3371 1	C.1 C	11 . 1	1121 1 1	1 1	'.'	
complex?	of the fo	ollowing at	bnormalities is known to	make people more sens	sitive to experiencing the MSG symp	otom
1		a.	obesity			
		b.	asthma			
		c.	diabetes			
		d.	hypertension			
ANSWER:					b	
112 What a	dditive	common to	Asian foods is thought	to be associated with a	eute, temporary intolerance reactions'	?
112. Wilat a	aanive (nitrites		to oc associated will ac	ate, temporary intolerance reactions	•
	b.	caroten				
	c.		odium glutamate			
	d.		ominated biphenyl			
		1 / 1	1 / -			

Name :			Class :	Dat e:
Chapter 20 - Co	onsumer (Concerns about Food	ds and Water	
ANSWER:				c
113 Which of the	following	is the most common use	e for adding carotenoids to for	oods?
a.	to colour		o for adding earotenoids to fe	, ods.
b.	to extend	l shelf life		
c.	to inhibit	microbial growth		
d.	to inhibit	nitrosamine formation		
ANSWER:				a
114. Which of the	se sweeten	ers should be avoided by	y people with PKU?	
	a.	neotame	•	
	b.	sucralose		
	c.	aspartame		
	d.	acesulfame-K		
ANSWER:				c
a. Its sweb. It is mc. It is a	eetness inc ade up of t good sourc	is a feature of aspartame reases with heat. three amino acids. see of dietary protein.		
d. Its bre ANSWER:	akaown pr	oducts include methano	and formaldenyde.	d
ANSWEK.				ď
prolonged periods	?		ges containing aspartame are	e stored at warm temperatures for
	ethanol is petone bodie			
		becomes oxidized.		
		ss level becomes exagge	rated	
ANSWER:	ie sweethe.	ss level occomes exagge	rucu.	a
117. High intakes a. inhibit dig b. become u	gestive trac nsafe for m	me are known to do which tenzymes nost of the population ld for seizures in epileps	-	
			•	from consumption of tomato juice
ANSWER:				c
110 3371 1 0.1	C 11 :	C 1		4.1 . C . 1.9
118. Which of the	_	raw fruits	non source of acrylamide int	take in Canada?
	a. b.	french fries		
		raw vegetables		
	c. d.	grilled seafood		
	u.	grincu scaroou		

Name :			Class ::	Dat e:
Chapter 20 - Con	sumer C	Concerns about F	oods and Water	
ANSWER:				b
119. Which of these temperatures?	substance	es is a carcinogen kı	nown to be produced when high-c	arbohydrate foods are cooked at high
-	a.	dioxin		
	b.	acrylamide		
	c.	carrageenan		
	d.	nitrosamine		
ANSWER:				b
			' it for one minute. How should th	m cooking in a microwave oven, place e container feel to be considered safe?
	d.	hot		
ANSWER:				a
b. Many comm c. There are sul hazard. d. Many substa	on packa	ging materials contain common packagi	erials may catch on fire. Ain traces of PCBs, which are releating materials that can migrate into materials interact with flavour con	the food and present a health
flavours.				_
ANSWER:				c
122. Which of the fo	ollowing t a.	oxic substances are PBBs	formed from production of paper	products used in food packaging?
	b.	URPs		
	c.	dioxins		
	d.	BHT and BHA		
ANSWER:				c
123. Which of these of paper?	substance	es is a food contami	nant formed during chlorine treats	ment of wood used in the manufacture
	a.	dioxin		
	b.	alginate		
	c.	acrylamide		
	d.	hydrochloride		
ANSWER:				a

124. Which of these substances is the standard chemical used to remove caffeine from coffee beans?

Name :				Class :	Dat e:	
Chapter 20) - Consi	umer Conc	erns about Food	ls and Water		
	a.	nitric acid				
	b.	sodium pro	pionate			
	c.	methylene	_			
	d.	polybromi	nated biphenyl			
ANSWER:					c	
125. Which	of the foll	owing is an	example of an indi	rect food additive?		
	a.	nit	rites			
	b.	vit	amin E			
	c.	irra	ndiation			
	d.	tin	from the can			
ANSWER:					d	
126. What cloff-flavour?	lassification	on is given to	o a substance that le	eaches from the inside lini	ing of a can into the fruit, resulting in an	
	a.	direct addi	tive			
	b.	indirect ad	ditive			
	c.	migratory	contamination			
	d.	peripheral	contamination			
ANSWER:					ь	
127. Which	of the foll	owing is ass	ociated with the ch	lorination of public water	systems?	
a.	It reduc	ces waterbor	ne illnesses.			
b.	It has a	high cost-to	b-benefit ratio.			
c.	It impa	rts a pleasan	t taste to the water.			
d.	It reduc	ces dental ca	ries formation in cl	hildren.		
ANSWER:					a	
128. What is	meant by	potable wa	ter?			
a.	water fi	t for drinkin	g			
b.	water th	at must be b	oiled before drinki	ng		
c.	water th	at must be c	hlorinated before d	lrinking		
d.	water su	uitable only	for use on lawns an	d gardens		
ANSWER:					a	
129. Which	of these si	ubstances is	commonly added to	o public water supplies to	disinfect the water?	
		a.	ozone	**		
		b.	fluoride			
		c.	chlorine			
		d.	penicillin			
ANSWER:					c	

130. Which of the following minerals gives potable water a metallic taste?

ame		Class :	Dat e:
hapter 20 - Cor	nsumer Concerns ab	out Foods and Water	
	a. potas	sium	
	b. calciu		
		anese	
	_	phorus	
NSWER:	a. Phos		c
1. Which of the fo	ollowing is an accurate	description of home water treatments	s?
a. Activated ca	arbon filters are effective	ve in removing chlorine.	
b. Most home	filtration systems are h	ighly efficient at removing virtually a	all types of contaminants.
c. Boiling the	water is effective at rer	noving organic chemicals as well as l	killing microorganisms.
	filtration systems combite the water, and addition	oine the processes of heavy metal remains of enhancers.	noval, killing of microorganisms,
ISWER:			a
2. Water that has	-	gs" most likely contains which of the	e following contaminants?
8	a. sulphur		
1	o. dioxins		
(c. Giardia		
(d. Cryptosporio	lium	
ISWER:			a
3. Which of these	is the chief purpose of	Susing ozone as a commercial water t	treatment?
a. Ozone k	tills microorganisms.		
b. Ozone c	omplexes with heavy r	netals.	
c. Ozone s	tabilizes the carbon filt	ration process.	
d. Ozone p	oromotes chlorine dissip	pation and thus enhances taste.	
SWER:			a
4. What is the ave	erage yearly intake (in l	litres), per person, of bottled water in	Canada?
	a.	5 L	
	b.	25 L	
	c.	65 L	
	d.	175 L	
ISWER:			c
5. Which of these	•	h water is purified by pressurizing it	and forcing it across a membrane?
a.	ozonation		
b.	distillation		
c.	reverse osmosis		
d.	activated carbon file	ration	
ISWER:			c

Name :				Class :	Dat e:
Chapter 2	0 - Co	onsumer (Concerns abou	nt Foods and Water	
	a.	glaci	er run-off		
	b.	sprin			
	c.	-	s in the wildernes	SS	
	d.	muni	cipal water suppl	lies	
ANSWER:					b
137. Which	of the	following	accurately descri	ibes bottled waters that are sold to c	consumers?
				and is regulated by Health Canada.	
		_		ll Health Product.	
				rect additive to the diet, and is regul	•
	vernme	ent regulat	ions mandate tha	t labels on bottled water reveal hear	vy metal content.
ANSWER:					a
138. Approx	ximatel	ly what pe	rcentage of our fr	resh water supply is used directly by	y the residential sector?
		a.	2 perc	ent	
		b.	10 per	rcent	
		c.	30 per	rcent	
		d.	55 per	rcent	
ANSWER:					b
_	ino acio a. b. c.	ds, is a stra biofort genetic reverse	ategy known as v dification de enrichment de DNA enrichmen	which of the following?	dified to contain higher amounts of its
ANGINED	d.	CFIA-	approved enrichr	nent	
ANSWER:					a
		pounds tha a. b. c.	at is normally fou fibre vitamin C sulphorapha	and in broccoli?	rtently lowered the content of which of
ANGINER		d.	chlorophyll		
ANSWER:					c
141. Rennir which of the				ustry for the production of cheese, i	s obtained most cost-effectively from
	a.	calf ston	nach		
	b.	pig intes			
	c.	genetica	lly engineered vi	ruses	
	d.	genetica	lly engineered ba	acteria	
ANSWER:					d

Name :	Class :	Dat e:
Chapter 20 - Consumer Concerns abo	out Foods and Water	
142. List the major functions of the followin Canada. ANSWER:	ng agencies that monitor the nation's fo	ood supply: CFIA, AAFC, and Health
143. Explain the difference between toxicity <i>ANSWER:</i>	y and hazard. Answers may vary.	
144. Cite examples of outbreaks of food-bo <i>ANSWER</i> :	orne infections from consumption of foo Answers may vary.	od products sold by the food industry.
145. Describe one well-publicized outbreak <i>ANSWER</i> :	of food-borne infection that happened Answers may vary.	in 2012.
146. Describe several known outbreaks of food in Canada.	Good poisoning in North America since	the year 2000 that also affected foods
ANSWER:	Answers may vary.	
147. List at least six symptoms that are asso <i>ANSWER:</i>	ociated with the contraction of food-bor Answers may vary.	ne illness.
148. List three major pathogenic microbes t sickness, and methods of prevention.	that are transmitted by foods; describe t	heir food sources, symptoms of
ANSWER:	Answers may vary.	
149. Describe food-borne infections that are 7 days).	e early onset (within 1 to 2 days), mid-o	onset (3 to 6 days), and late onset (after
ANSWER:	Answers may vary.	
150. What steps can consumers take to ensu. <i>ANSWER</i> :	ure food safety in the kitchen? Answers may vary.	
151. What are mad cow disease and H1N1 is		an beings? How can you reduce risk of
contracting these disorders? ANSWER:	Answers may vary.	
152. What precautions should consumers ta <i>ANSWER</i> :	ke when selecting and consuming seafor Answers may vary.	ood?
153. List safe-handling practices for milk an <i>ANSWER</i> :	nd cheeses, eggs, honey, mixed salads, Answers may vary.	seafood, and picnic foods.
154. Discuss consumer concerns about irrac <i>ANSWER:</i>	diation. Answers may vary.	
155. Explain the precautions that should be <i>ANSWER</i> :	taken to minimize the risk of traveller' Answers may vary.	s diarrhea.

Name :	Class :	Dat e:
Chapter 20 - Consumer C	Concerns about Foods and Water	
156. What is food irradiation method.	and how is it regulated? Explain the pros and cons of	irradiation as a food-processing
ANSWER:	Answers may vary.	
157. What steps can consume ANSWER:	rs take to minimize nutrient losses during food prepara Answers may vary.	ation?
158. Describe the effects of each ANSWER:	nvironmental contaminants, including the bioaccumula Answers may vary.	ation of toxic substances.
	of mercury in the food chain. What population groups mendations concerning consumption of foods containi Answers may vary.	1
them.	f naturally occurring toxicants in foods and appropriat	e methods to minimize exposure to
ANSWER:	Answers may vary.	
161. How are pesticides regulin the body?	ated and monitored in the Canadian food supply? How	v can pesticide residues be monitored
ANSWER:	Answers may vary.	
162. Discuss the concerns of residues on foods.	the public regarding the use of pesticides. Describe mo	ethods to minimize intake of pesticide
ANSWER:	Answers may vary.	
163. Describe the use of alternative ANSWER:	natives to conventional chemical application for the co	ontrol of agricultural pests.
164 D' 14'		
ANSWER:	erning the production and labelling of organic foods. Answers may vary.	
165. What are the Canadian c <i>ANSWER:</i>	riteria for organically grown crops? Answers may vary.	
	• •	
166. List several advantages f <i>ANSWER:</i>	Answers may vary.	
167. What is the meaning and inflexible?	significance of the Delaney Clause? Why is it believe	ed by many to be too strict and
ANSWER:	Answers may vary.	
168. Explain the food manufa ANSWER:	cturer's responsibilities for the use of food additives. Answers may vary.	
169. List four appropriate use	s for nutrient additives to foods.	

Name :	Class :	Dat e:
Chapter 20 - Consumer Concerns	about Foods and Water	
ANSWER:	Answers may vary.	
170. What are sulphites? Explain current ANSWER:	t Health Canada regulations regarding the Answers may vary.	eir use.
171. List the major antioxidant additive <i>ANSWER:</i>	s in the food supply and their side effects Answers may vary.	in human beings.
172. What are the advantages and disad <i>ANSWER</i> :	vantages of using MSG in foods? Answers may vary.	
173. Give examples of different types o <i>ANSWER:</i>	f indirect food additives, and explain how Answers may vary.	they become part of the food supply.
174. Discuss the formation and significa ANSWER:	ance of acrylamide and dioxins in food. Answers may vary.	
175. Discuss the use of packaging mater determine if an unlabelled glass or cerar <i>ANSWER</i> :	rials for foods designed to be exposed to notice container is microwave-safe? Answers may vary.	microwave cooking. How can you
176. Discuss safety concerns of consum remove the caffeine?	ing coffee that was decaffeinated by metl	hylene chloride. Are there other ways to
ANSWER:	Answers may vary.	
177. What are the chief concerns with the ANSWER:	ne use of antibiotics in livestock? Answers may vary.	
178. Explain the differences between gr ANSWER:	oundwater and surface water as sources of Answers may vary.	of drinking water.
179. List several unpleasant characterist ANSWER:	ics associated with safe, potable water. Answers may vary.	
180. Discuss the origin of common drin <i>ANSWER</i> :	king water contaminants such as heavy m Answers may vary.	netals, microbes, and organic toxicants.
181. List four common home treatments <i>ANSWER:</i>	s for improving the quality of water. Answers may vary.	
182. How does genetic engineering diffeanswer:	er from traditional selective breeding? Answers may vary.	
183. Discuss how genetic engineering c	an be used to improve the nutritional valu	ue of foods using specific examples.

Name :		Class :	Dat e:
Chapter 20	- Consumer Concerns abou	ut Foods and Water	
184. Present ANSWER:	examples of food crops that have	e been genetically engineered to produce their own pe Answers may vary.	esticides.
185. What is <i>ANSWER:</i>	"biopharming"? Provide an exam	mple. Answers may vary.	
186. Give ex <i>ANSWER:</i>	amples of genetic engineering fo	or the production of herbicide- and pesticide-resistant Answers may vary.	crops.
187. Present ANSWER:	examples of food crops that have	e been genetically engineered to produce drugs for hu Answers may vary.	man beings.
188. Provide ANSWER:	examples of the potential proble	ems and concerns with biotechnology. Answers may vary.	
189. Present ANSWER:	six arguments each on the pros a	and the cons of genetic engineering. Answers may vary.	
190. Explain ANSWER:	the role of Health Canada in reg	gulating food produced through biotechnology. Answers may vary.	
191. Present ANSWER:	eight arguments each that are in	support of, and in opposition to, food biotechnology. Answers may vary.	
a.	bST		
b.	BHT		
c.	Surface		
d.	Health Canada		
e.	MSG		
f.	GRAS		
g.	Ground		
h.	Sulphite		
i.	Hazard		
j.	Nitrite		
k.	Toxicity		
1.	Solanine		
m.	Hepatitis		
n.	Goitrogen		
0.	Nitrosamines		

Bioaccumulation

Margin of Safety

Tolerance Level

Methylene chloride

p.

q.

r.

s.

Name :	Class :	Dat e:
Chapter 20 - Consumer Concerns abo	out Foods and Water	
192. Term that designates the ability of a su <i>ANSWER</i> :	bstance to harm living organisms if en	nough is consumed k
193. Term designating that a substance is po <i>ANSWER:</i>	ossibly harmful under normal use cond	litions i
194. Typical food-borne infection that resul <i>ANSWER:</i>	ts from eating undercooked or raw she	ellfish m
195. The act of concentrating contaminants <i>ANSWER:</i>	within the flesh of animals high on the	e food chain p
196. Toxic compound common in cabbage, <i>ANSWER:</i>	turnips, and radishes	n
197. Poisonous narcotic-like substance pres <i>ANSWER</i> :	ent in potato sprouts	1
198. Term that describes the maximum amo according to directions <i>ANSWER</i> :	ount of a pesticide residue permitted or	n a food when the chemical is used
199. Source of water that is contaminated sl <i>ANSWER</i> :	lowly but more permanently	g
200. Acronym used for food additives long <i>ANSWER</i> :	believed to be safe	f
201. Zone between the normal concentration <i>ANSWER</i> :	n used and that in which a hazard exist	ts q
202. Class of substances that are purposely <i>ANSWER</i> :	added to foods	t
203. Substance added to cured meats to pres <i>ANSWER</i> :	serve colour	j
204. Carcinogenic substances formed within <i>ANSWER</i> :	n the stomach	o
205. Organization that is responsible for appa/ANSWER:	proving food colours	d
206. A food additive known to destroy thiar <i>ANSWER</i> :	min	h

Name :	Class ::	Dat e:
Chapter 20 - Consumer Concerns	s about Foods and Water	
207. A preservative commonly used in <i>ANSWER</i> :	snack foods to slow the development of of	ff-flavours, odours, and colour changes b
208. Flavour enhancer <i>ANSWER</i> :		e
209. Hormone banned in Canada that p <i>ANSWER:</i>	promotes growth and milk production in co	ws a
210. Substance used to remove caffeine <i>ANSWER:</i>	e from coffee	s
211. Source of water easily contaminat <i>ANSWER</i> :	ed but constantly replaced	c