Indicate whether the statement is true or false.

1. All humans share 99.9% of the human genome.

a. Tr

b. False

2. A good diet alone will prevent an individual from getting heart disease.

a. Trueb. False

3. Canada's guidelines for healthy eating include information on diet and physical activity.

a. True

b. False

4. Cultural traditions regarding food are static and inflexible.

a. True

b. False

5. Once a new finding is published in a scientific journal, it is considered preliminary.

a. True

b. False

6. Alcohol is a nutrient that yields energy for the body.

. Т

b. False

7. Malnutrition includes deficiencies, imbalances, and excesses of nutrients. Any of these factors can be harmful over time.

a. True

b. False

8. Enriched and fortified foods are not necessarily more nutritious than whole basic foods.

a. True

b. False

9. When a hospital client has to be fed through a vein, the duration should be as short as possible and real food should be reintroduced as early as possible.

a. True

b. False

10. A basic premise of dietary guidelines is that food should provide nutrients over supplements whenever possible.

a. True

b. False

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Indicate	the answer	choice that	best completes the statement or answ	ers the question.
11. Whic	ch of the foll	owing med	a is the most credible source of nutri	tion information?
	a.	newspa	per articles	
	b.	health 1	magazines	
	c.	scientif	ic journals	
	d.	blogs		
	see a new fin			paper. What is your most prudent response
a.	You decide	e that the in	formation is factual.	
b.	You wait u	intil there a	re confirmed results to apply the findi	ing.
c.	You feel co	onfident abo	out changing your diet accordingly.	
d.	You attribu	ute it to med	lia sensationalism.	
13. What		commonly	given to an Internet story that gains	strength of conviction solely on the basis
	a.	adverto	rial	
	b.	anecdot	al evidence	
	c.	urban le	gend	
	d.	infome	cial	
14. Whic	ch of the foll	owing state	ments best defines an "essential" nuti	rient?
a.	It is necessar	ary for good	I health and proper functioning of the	e body.
b.	It can be ob	otained only	from the diet.	
c.	It can be m	anufactured	by the body from raw materials.	
d.	It can be m	anufactured	by the body itself.	
	ch of the foll body tissues	-	ents yields energy and also provides	materials that form structures and working
	-	a.	proteins	
		b.	vitamins	
		c.	fats	
		d.	proteins	

16. What daily nutrition supplement does the Canadian food guide recommend for women of childbearing age?

a. folic acid

b. vitamin D

c. vitamin C

d. calcium

17. Which of the following nutrients is considered organic? Copyright Cengage Learning. Powered by Cognero.

Name :			Class :	Dat e:
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	a.	minerals		
	b.	carbohydrate		
	c.	water		
	d.	alcohol		
	_	terms is used to desc have medicinal effect	_	en isolated from food, is often sold in
а	ւ.	nutraceutical		
ŀ	).	nonnutrient		
C	<b>:.</b>	partitioned		
C	l.	phytochemical		
19. What factor is d someone they admi	_	ood choice when an i	ndividual selects a food b	ecause the item is consumed by
a.	valu	es or beliefs		
b.	posi	tive associations		
c.	soci	al pressure		
d.	adve	ertising		
	ary tract		t urinary tract infections be term for this type of com	by preventing certain bacteria from pound?
b		phytochemical		
c		natural food		
d		nutraceutical		
21. What is the tern toxins or contaminate			nat suggests a monotonou	s diet may deliver large amounts of
	a.	adequacy		
	b.	variety		
	c.	moderation		
	d.	balance		

- 22. The integration of nutrition, genomic science, and molecular biology has launched a new area of study. What is this area of study called?
  - a. nutrition genetics
  - b. nutritional genomics
  - c. nutritional molecular science
  - d. nutritional science
- 23. A nutrition claim that insists medical doctors want to keep people ill so that they continue to make money is

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an exampl	le of wh	ich earmark of nutri	ition quacker	y?	
	a.	logic without	proof		
	b.	authority not	cited		
	c.	unpublished s	studies		
	d.	persecution c	laims		
24. What t	ype of 1	esearch looks for co	orrelations be	tween dietary habits and	disease incidence in a population?
	a.	epidemiologica	1 study		
	b.	intervention stu	ıdy		
	c.	case study			
	d.	laboratory stud	y		
25. How n	nany Ca	lories are there in 1	gram of carb	ohydrate or protein?	
			a.	2	
			b.	4	
			c.	7	
			d.	9	
26. In whi		of study do the inve	estigators not	manipulate the study vari	ables of interest but instead monitor
	a.	cohort study			
	b.	case-control stud	y		
	c.	epidemiological s	study		
	d.	community health	n survey		
27. What i kitchen?	s somet	hing consumers are	looking for i	n today's meal preparatio	n that takes place in their own
a.	meatle	ess meals			
b.	prepar	ation time that takes	s no longer th	an 60 minutes	
c.	recipe	s that call for only 4	to 6 ingredie	ents	
d.	strict ı	ise of organic foods			
	ontains				ounces of water-packed tuna, but ies. What is the term for this
annerence		a. balance			
		b. moderation	on		
		c. dietary va			

d.

nutrient density

29. Which of the following is a benefit of physical activity on the body?

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		e:

- a. increased lean body tissue
- b. increased risk of cardiovascular diseases
- c. decreased bone density
- d. slower wound healing
- 30. Which of the following statements best defines "enriched" as it is applied to a food product?
  - a. The product is low in Calories and high in nutrients.
  - b. The product is more expensive to purchase.
  - c. The product is superior to similar products.
  - d. The product could be either nutritious or not nutritious.
- 31. Which of the following characteristics defines a legitimate and qualified nutrition expert?
  - a. completion of an approved internship or the equivalent
  - b. graduation from a college after completing a program of dietetics
  - c. using the term nutritionist after the individual's name
  - d. graduation from a correspondence program with an internship
- 32. Which one of the following factors primarily drives food choices?
  - a. genetics
  - b. convenience
  - c. nutritional value
  - d. climate of the country
- 33. What section of a research article defines key terms and describes study procedures?
  - a. abstract
  - b. introduction
  - c. methodology
  - d. evidence review
- 34. How many Calories are there in a food that contains 20 grams of carbohydrate, 8 grams protein, and 5 grams of fat?
  - a. 132 Calories
  - b. 157 Calories
  - c. 231 Calories
  - d. 297 Calories
- 35. Which of the following is a type of anthropometric information that may be obtained as part of an individual's nutritional assessment?
  - a. glucose level
  - b. food intake
  - c. body height

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	d.	health history		
36. Which of the	he followin	g units do food scientis	sts use to measure food ene	ergy?
	a.	units of mass		
	b.	kilocalories		
	c.	kilograms		
	d.	grams		
37. Which of the	he followin	g foods offers the mos	t nutrients per Calorie?	
	a.	diced carrot		
	b.	ice cream		
	c.	pork sausage		
	d.	black coffee		
		ld provide enough of ear	ach essential nutrient, enou	gh fibre, and enough energy. What is
	a.	moderation		
	b.	adequacy		
	c.	variety		
	d.	balance		
				tive tract, but too much fibre leads to takes this fact into account?
	a.	adequacy		
	b.	Calorie control		
	c.	moderation		
	d.	balance		
40. What is the	e most accu	rate term used to descr	ibe a person who is strict al	bout including only foods from plant

- a. vegetarianb. carnivorec. omnivored. vegan
- 41. Which of the following functions is the responsibility of provincial dietetic regulatory bodies?
  - a. accrediting correspondence schools in dietetics
  - b. protecting the public from unsafe dietetic practice
  - c. randomly monitoring the competence of members
  - d. referring complaints about dietetic members to Dietitians of Canada

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42. Which of the following statement natural foods?	s most accura	ately describes items in the	he supermarket that are advertised as
a. The food is made from parts	s of whole foo	ods.	
b. The food is used frequently	in most house	eholds.	
c. The food is implied to be wl	holesome, ho	wever this is not a legal	term.
d. The food has had nutrients a	added to impr	ove the nutritional profil	e.
43. When given to severely ill people	unable to eat	t ordinary food, what are	elemental diets designed to do?
a. support life			
b. enable people to th	rive		
c. support optimal gro	owth		
d. enhance digestive t	tract health		
44. How many Calories does 1 gram	of alcohol pro	ovide?	
	a.	2	
	b.	4	
	c.	7	
	d.	9	
45. Which of the following characteri	istics of a clai	m about nutrition would	lead you to doubt its validity?
a. It appears in a peer-reviewe	d scientific jo	ournal.	
b. It is being made by a registe			
c. The evidence supporting the	e claim is in the	he form of laboratory tes	ets.
d. It is written by an individua	l with certific	ation from a diploma mi	11.
46. How many classes of nutrients are	e there?		
	a.	2	
	b.	4	
	c.	6	

- a. randomized controlled trials
- b. epidemiological studies
- c. blind experiments
- d. case studies
- 48. Which of the following nutrients is the most energy-rich?
  - a. fat
  - b. protein
  - c. minerals

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	d.	carbohydrate		
49. In Italy, pasta is	s an exan	nple of what kind of f	Good?	
	a.	fortified		
	b.	processed		
	c.	natural		
	d.	staple		
	_	characteristics applies	s to alcohol?	
		s no Calories.		
		with repair of body tis	sues.	
	a nutrien			
d. It is	non-toxi	c to the body.		
that qualify dietitia	ns to pra	=	_	luate and dietetic internship programs
b. Canadia:	n Society	y for Clinical Nutrition	n	
c. Canadia	n Associ	ation of Nutrition and	Dietary Consultants	
d. Dietitian	s of Can	ada		
52. Which of the fo	ollowing	conditions is the most	t responsive to nutrition	n?
a.	diabet		•	
b.	iron d	leficiency anemia		
c.	sickle	cell disease		
d.	heart	disease		
53. Which of the fo	ollowing	nutrients is energy-yi	elding?	
	a.	carbohydrates		
	b.	vitamins		
	c.	water		
	d.	minerals		
54. What daily nutrof 50 years?	rition sup	oplement does the Car	nadian food guide reco	mmend for men and women over the age
	a.	folic acid		
	b.	vitamin D		
	c.	calcium		

d.

iron

55. What is the name for the study of environmental influences on genetic expression?

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		<b>C</b> .

- a. epigenetics
- b. genetic counselling
- c. nutritional nucleic acid pool
- d. genetic metabolics
- 56. Sugar, butter, and corn oil provide few nutrients with many Calories. What is the name for these types of foods?
  - a. partitioned
  - b. enriched
  - c. processed
  - d. natural
- 57. What class of compound gives hot peppers their burning taste?
  - a. nonnutrient
  - b. nutrient
  - c. supplement
  - d. toxin
- 58. Describe how you would determine whether an Internet site offers reliable nutrition information.
- 59. Why does the variety of foods available to us today make it more difficult, rather than easier, to plan nutritious diets?
- 60. Describe the potential benefits of physical activity.
- 61. Identify and briefly describe the five characteristics of a nutritious diet.
- 62. Explain the concept of nutrient density and give an example.
- 63. What is meant by the term "essential nutrient"?
- 64. Describe why people should not make changes in their diets based on the results of a single research study.
- 65. What are the functions of food, besides providing nutrients?
- 66. Identify and explain factors that drive food choices.
- 67. Which of the following meals provides the most overall Calories? Show your calculations.

Meal A: Meal B:

Hamburger Spaghetti with Tomato Sauce

- 30 grams carbohydrate 45 grams carbohydrate
- 19 grams fat 15 grams fat

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- 22 grams protein 10 grams protein
- 68. Provide specific examples of how vitamins and minerals serve as regulators in the body.

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# **Answer Key**

- 1. True
- 2. False
- 3. True
- 4. False
- 5. True
- 6. False
- 7. True
- 8. True
- 9. True
- 10. True
- 11. c
- 12. b
- 13. c
- 14. b
- 15. d
- 16. a
- 17. b
- 18. a
- 19. b
- 20. b
- 21. b
- 22. b
- 23. d
- 24. a

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- 25. b
- 26. a
- 27. с
- 28. d
- 29. a
- 30. d
- 31. a
- 32. b
- 33. c
- 34. b
- 35. c
- 36. b
- 37. a
- 38. b
- 39. c
- $40.\,\mathrm{d}$
- 41. b
- 42. c
- 43. a
- 44. c
- 45. d
- 46. c
- 47. a
- 48. a
- 49. d

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50. b		
51. d		
52. b		
53. a		
54. b		
55. a		
56. a		
57. a		

- 58. A person should ask him- or herself the following questions:
- 1 Who is responsible for the site?
- 2 Do the names and credentials of information providers appear? Is an editorial board identified?
- 3 Are links with other reliable information sites provided?
- 4 Is the site updated regularly?
- 5 Is the site selling a product or service?
- 6 Does the site charge a fee to gain access to it?
- 59. The number of foods supplied by the food industry today is astounding. Many foods are processed mixtures of basic foods, and this abundance of products makes it more difficult to plan a nutritious diet. To select well among foods, you need to know more than the product names—you need to know the foods' inner qualities and how to combine foods into a nutritious diet.
- 60. Reduced risk of cardiovascular disease; increased cardiovascular endurance; increased muscle strength and endurance; increased flexibility; reduced risk of type 2 diabetes; reduced risk of some types of cancer (especially colon and breast); improved mental outlook and lessened likelihood of depression; improved mental functioning; feeling of vigour; feeling of belonging—the companionship of sports; strong self-image and belief in one's abilities; reduced body fatness, increased lean tissue; a more youthful appearance, healthy skin, and improved muscle tone; greater bone density and lessened risk of adult bone loss in later life; increased independence in the elderly; sound, beneficial sleep; faster wound healing; lessening or elimination of menstrual pain; improved resistance to infection.
- 61. 1 Adequacy: the dietary characteristic of providing all of the essential nutrients, fibre, and energy in amounts sufficient to maintain health and body weight.
- 2 Balance: the dietary characteristic of providing foods of a number of types in proportion to each other such that foods rich in some nutrients do not replace foods that are rich in other nutrients. Also called proportionality.
- 3 Calorie control: control of energy intake; a feature of a sound diet plan.
- 4 Moderation: the dietary characteristic of providing constituents within set limits, not to excess.
- 5 Variety: the dietary characteristic of providing a wide selection of foods—the opposite of monotony.
- 62. Nutrient density is a measure of nutrients provided per Calorie of food. In other words, a food that is rich in nutrients relative to its energy contents is considered nutrient dense. For example, milk is more nutrient dense

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than ice cream.

- 63. The body cannot make these nutrients for itself. You must consume these nutrients in your diet or you will develop deficiencies. Essential nutrients are found in all six classes of nutrients.
- 64. Nutrition is a relatively new science, and because it is constantly changing, scientific findings are often inclusive, contradictory, or subject to conflicting interpretations. Most research projects result in new questions and not final answers.
- 65. Food conveys emotional satisfaction, and hormonal and digestive tract stimuli that contribute to health. Food also contains nonnutrients such as phytochemicals that give them their tastes, aromas, colours, and other characteristics.
- 66. Factors include: advertising; availability of food; economy; emotional comfort; habit; personal preference and genetic inheritance; positive associations; region of the country; social pressure; values or beliefs; weight; nutritional value.

#### 67. Meal A

Meal A: Meal B:

30 g carbohydrate  $\times$  4 Cal/g = 120 Calories 45 g carbohydrate  $\times$  4 Cal/g = 180 Calories

19 g fat  $\times$  9 Cal/g = 171 Calories 15 g fat  $\times$  9 Cal/g = 135 Calories

22 g protein  $\times$  4 Cal/g = 88 Calories 10 g protein  $\times$  4 Cal/g = 40 Calories

Total Calories = 379 Calories Total Calories = 355 Calories

68. Vitamins and minerals assist the body in all processes: digesting food; moving muscles; disposing of wastes; growing new tissues; healing wounds; obtaining energy from carbohydrate, fat, and protein; and participating in every other process necessary to maintain life.