Test Bank¹ for *Nutrition: Your Life Science* 1e Module 1 – Nutrition Basics

Question Information Key

ΑN	NS = correct answer	REF = page reference	TOP = module section
		Exam A	
<u>Tı</u>	rue/False		
1.	Health is complete physica	al, mental, and social well-being, r	not just the absence of infirmity.
	ANS: T	REF: 5	TOP: 1.1
2.	Malnutrition refers to the i	mpairment of health resulting only	y from nutrient deficiency.
	ANS: F	REF: 7	TOP: 1.1
3.	Alcohol is a central nervou	us system depressant.	
	ANS: T	REF: 8	TOP: 1.1
4.	Combining rice with veget	tables is an example of protein cor	mplementation.
	ANS: T	REF: 18	TOP: 1.3
5.	Minerals are organic comp	oounds.	
	ANS: F	REF: 30	TOP: 1.5
6.	Linoleic acid is an essentia	al fatty acid.	
	ANS: T	REF: 22	TOP: 1.4
7.	Polyunsaturated fatty acids	s contain more than one double bo	and between the carbon molecules.
	ANS: T	REF: 22	TOP: 1.4
8.	Cholesterol is an essential	nutrient.	
	ANS: F	REF: 27	TOP: 1.4
9.	If a mineral is found in the major mineral.	e adult reference male body at a lev	vel of 2.4 grams, then it would be considered a
	ANS: F	REF: 31	TOP: 1.5

¹ By Jennifer Turley and Joan Thompson of Weber State University. Four alternate forms of the exam for this module (A, B, C, and D) plus a practice exam, each with unique questions, are included in this document. Ready-to-print versions of each (without answers) are provided at the end of this document.

10.	Plant proteins are incomplete, low-quality proteins that are limited in one or more essential amino acids		
	ANS: T	REF: 18	TOP: 1.3
11.	Dietary fat intake should be as low as possible for optimal health.		
	ANS: F	REF: 23	TOP: 1.4
12.	Fats high in polyunsaturated fa	atty acids are solid at room temperat	ure.
	ANS: F	REF: 22	TOP: 1.4
13.	Cellulose is non-caloric because	se it is a fiber.	
	ANS: T	REF: 13	TOP: 1.2
14.	Fruit provides a carbohydrate	food source.	
	ANS: T	REF: 14	TOP: 1.2
15.	The essential fatty acids are polyunsaturated.		
	ANS: T	REF: 22	TOP: 1.4
16.	Cheese provides a source of incomplete, low-quality protein.		
	ANS: F	REF: 19	TOP: 1.3
17.	Soybeans provide a source of cholesterol and phospholipids.		
	ANS: F	REF: 26	TOP: 1.4
18.	Adenosine triphosphate is prod	duced inside the cell nucleus.	
	ANS: F	REF: 6	TOP: 1.1
19.	Dietary fibers are complex car	bohydrates.	
	ANS: T	REF: 12	TOP: 1.2
20.	Hunger is the physiological need for food.		
	ANS: T	REF: 8	TOP: 1.1
Ma	ntching		
Ma	tch the energy-yielding food co	nponent with its energy yield. Choo	se the best answer. You may use some

answers more than once or not at all.

A. 0 Calories per gram

 $2 \sim Module \ 1 \ Test \ Bank$

- B. 2 Calories per gram
- C. 4 Calories per gram
- D. 7 Calories per gram
- E. 9 Calories per gram
- 1. Sucrose provides:

- 2. Alcohol provides:
- 3. Protein provides:
- 4. Triglycerides provide:
- 5. Vitamins provide:

Answers:

1.	ANS: C	REF: 4 12	TOP: 1.1 1.2
2.	ANS: D	REF: 8 15	TOP: 1.1 1.2
3.	ANS: C	REF: 4 17	TOP: 1.1 1.3
4.	ANS: E	REF: 4 21	TOP: 1.1 1.4
5.	ANS: A	REF: 4 29	TOP: 1.1 1.5

Match the short phrase or term with the associated short phrase or term. Choose the best answer. You may use some answers more than once or not at all.

- A. Tissue repair
- B. Medium for metabolism
- C. Preferred and fastest energy source
- D. Enzyme cofactor
- E. Cell membranes
- 6. Function of carbohydrates
- 7. Function of phospholipids
- 8. Function of water

Answers:

6.	ANS: C	REF: 12	TOP: 1.2
7.	ANS: E	REF: 25	TOP: 1.4
8.	ANS: B	REF: 32	TOP: 1.5

Multiple Choice

- 1. What is food?
 - A. Anything that enters the body through the mouth
 - B. Substances nonessential for the body
 - C. Anything that nourishes the body
 - D. Substances that provide fiber
 - E. The medium for metabolism

ANS: C REF: 3 TOP: 1.1

- 2. Which of the following is a macronutrient?
 - A. Minerals
 - B. Vitamins
 - C. Protein
 - D. A and B
 - E. A, B, and C

ANS: C REF: 5 TOP: 1.1

$4 \sim Module \ 1 \ Test \ Bank$

3.	The nutritional science definited. A. chemically free. B. hydrogenated. C. water bound. D. living. E. carbon containing.	ion of <i>organic</i> is:	
	ANS: E	REF: 12	TOP: 1.2
4.	 A person who consumes an interaction. A. have less potential for tiss. B. experience greater kinetic. C. become deficient in chole. D. age more gracefully. E. lack the preferred fuel source. 	energy. sterol.	
	ANS: A	REF: 17	TOP: 1.3
5.	Which of the following is an e A. Linoleic acid B. Folic acid C. Iodine D. Cellulose E. Lecithin	ssential and inorganic nutrient?	
	ANS: C	REF: 30 31	TOP: 1.5
6.	Which of the following is an e A. Cholesterol B. Oleic acid C. Manganese D. Thiamin E. Water	ssential and organic nutrient?	
	ANS: D	REF: 28 29	TOP: 1.5
7.	 Which fatty acids have no card A. Saturated fatty acids B. Monounsaturated fatty acid C. Polyunsaturated fatty acid D. <i>Trans</i> fatty acids E. <i>Cis</i> fatty acids 	ids	
	ANS: A	REF: 21	TOP: 1.4
8.	Longevity is affected by: A. diet. B. exercise. C. habits such as smoking an D. A and B only E. A, B and C	d alcohol consumption.	
	ANS: E	REF: 8	TOP: 1.1

9.	Which of the following is a chaA. AdequacyB. BalanceC. ModerationD. VarietyE. All of the above	aracteristic of a sound diet?	
	ANS: E	REF: 7	TOP: 1.1
10.	Satiety is best described as the A. feeling of fullness. B. need to eat. C. desire for food. D. process of drinking water. E. state of complete wellbein		
	ANS: A	REF: 8	TOP: 1.1
11.	Which statement(s) is/are true A. It is an organic compound B. Deficiency can occur rapid C. An adequate intake for all D. A and B are true. E. A, B, and C are true.	•	expended.
	ANS: B	REF: 32	TOP: 1.5
12.	A. Energy-producing nutrientB. Energy-producing nutrientC. Energy-producing nutrient	ts are inorganic compounds. ts are elements. fat are energy-producing nutrients.	ts?
	ANS: E	REF: 5 12 17 20	TOP: 1.1 1.2 1.3 1.4
13.	A. HydrogenB. ZincC. NitrogenD. SeleniumE. Oxygen	n amino acids but not fatty acids?	
	ANS: C	REF: 17 20	TOP: 1.3 1.4
14.	What are the three most comm A. Fructose, sucrose, ribose B. Fructose, glucose, galactose C. Sucrose, maltose, lactose D. Maltose, glucose, fructose E. Amylose, cellulose, sucros		iet?
	ANS: C	REF: 12	TOP: 1.2

15.	Food sources of carbohydrate A. milk. B. cereal. C. fruit. D. All of the above E. None of the above	include:	
	ANS: D	REF: 14	TOP: 1.2
16.	How are lipids/fats categorized A. Simple and complex B. Complete and incomplete C. Saturated and unsaturated D. Major and trace E. Triglycerides, phospholip		
	ANS: E	REF: 20	TOP: 1.4
17.	How are carbohydrates catego A. Simple and complex B. Complete and incomplete C. Organic and inorganic D. Major and trace E. Digestible and indigestible		
	ANS: A	REF: 12	TOP: 1.2
18.	The two categories of amino a A. essential amino acids and B. complete amino acids and C. branched-chain amino acids D. water-soluble amino acids E. macro-amino acids and m	non-essential amino acids. l incomplete amino acids. ds and sulfur-containing amino acids and fat-soluble amino acids.	ls.
	ANS: A	REF: 17	TOP: 1.3
19.	 A. Thiamin, niacin, riboflavi B. Niacin, biotin, zinc, cholin C. Thiamin, chromium, ribot D. Vitamin B₁₂, vitamin E, v. E. Folate, iron, vitamin C, zin 	ne flavin, vitamin B ₆ itamin C, biotin nc	
	ANS: A	REF: 29	TOP: 1.5
20.	 A. Iron, zinc, and magnesium B. Sodium, potassium, and c C. Calcium, phosphorus, and D. Magnesium, copper, and E. Fluoride, iodine, and chro 	hloride I selenium zinc mium	
	ANS: B	REF: 31	TOP: 1.5

21.	 Which type of fatty acid is for A. Saturated fatty acids B. Monounsaturated fatty ac C. Polyunsaturated fatty ac D. <i>Trans</i> fatty acids E. Monoglycerides 		
	ANS: B	REF: 21	TOP: 1.4
22.	Of the energy-producing nutrithe recommended dietary into A. Carbohydrate B. Minerals C. Fat D. Protein E. Vitamins		he lowest percentage of total Calories within
	ANS: D	REF: 14 19 23	TOP: 1.2 1.3 1.4

Exam B

1.	. Appetite is defined as the psychological desire for food.		
	ANS: T	REF: 8	TOP: 1.1
2.	Malnutrition can include excess	ssive intake of a nutrient.	
	ANS: T	REF: 7	TOP: 1.1
3.	Cellulose is a phospholipid.		
	ANS: F	REF: 13	TOP: 1.2
4.	Combining fruit and vegetable	s is an example of protein compleme	entation.
	ANS: F	REF: 18	TOP: 1.3
5.	Alpha-linolenic acid is an esse	ntial fatty acid.	
	ANS: T	REF: 22	TOP: 1.4
6.	A lack of daily physical activit	y reduces longevity.	
	ANS: T	REF: 8	TOP: 1.1
7.	Sources of fat with high amoun	nts of saturated fatty acids are solid	at room temperature.
	ANS: T	REF: 21	TOP: 1.4
8.	Adequate amounts of cholester	rol are synthesized by the adult hum	an liver.
	ANS: T	REF: 26 27	TOP: 1.4
9.	If a mineral is found in the adumineral.	alt reference body at a level of 6.4 gr	rams, then it would be considered a major
	ANS: T	REF: 31	TOP: 1.5
10.	Animal proteins are complete I	proteins.	
	ANS: T	REF: 19	TOP: 1.3
11.	Cholesterol can be used to make	ce bile within the human body.	
	ANS: T	REF: 26	TOP: 1.4
12.	Organic compounds contain th	e element carbon.	
	ANS: T	REF: 12	TOP: 1.2

13.	3. Appetite is the psychological desire for food.		
	ANS: T	REF: 8	TOP: 1.1
14.	Vitamins can function in acid-	base balance.	
	ANS: F	REF: 29 30	TOP: 1.5
15.	The human body can make ess	sential nutrients.	
	ANS: F	REF: 6	TOP: 1.1
16.	Water is an inorganic compoun	nd.	
	ANS: T	REF: 32	TOP: 1.5
17.	Humans are comprised of cells	s of the same type throughout the bo	dy.
	ANS: F	REF: 5	TOP: 1.1
18.	When a person is thirsty s/he is	s not yet dehydrated.	
	ANS: F	REF: 33	TOP: 1.5
19.	Food is anything edible that no	ourishes the body.	
	ANS: T	REF: 3	TOP: 1.1
20.	For optimal health, a majority	of Calories in the diet should come	from protein.
	ANS: F	REF: 14 19	TOP: 1.2 1.3
Ma	atching		
A. B. C.	wers more than once or not at a 0 Calories per gram 2 Calories per gram 4 Calories per gram 7 Calories per gram		se the best answer. You may use some
1. 2. 3. 4. 5. 6.	Fructose provides: Starch provides: Cellulose provides: Triglycerides provide: Calcium provides: Animal protein provides:		
	swers:		
1. 2.	ANS: C	REF: 4 12	TOP: 1.1 1.2
1.	ANC. C	DEE. 4112	TOD: 1 1 1 2
	ANS: C	REF: 4 12 REF: 13	TOP: 1.1 1.2
3. 4.	ANS: C ANS: A ANS: E	REF: 4 12 REF: 13 REF: 4 21	TOP: 1.1 1.2 TOP: 1.2 TOP: 1.1 1.4

6. ANS: C REF: 4|17 TOP: 1.1|1.3

Match the short phrase or term with the associated short phrase or term. Choose the best answer. You may use some answers more than once or not at all.

- A. Contain nitrogen
- B. Contain alpha-linked glucose
- C. Are inorganic and needed in tiny amounts
- D. Are organic and needed in tiny amounts
- E. Form membrane bilayers
- 7. Digestible polysaccharides:
- 8. Proteins:
- 9. Phospholipids:
- 10. Minerals:
- 11. Vitamins:

Answers:

7. ANS: B	REF: 13	TOP: 1.2
8. ANS: A	REF: 17	TOP: 1.3
9. ANS: E	REF: 25	TOP: 1.4
10. ANS: C	REF: 30 31	TOP: 1.5
11. ANS: D	REF: 28	TOP: 1.5

Multiple Choice

- 1. Six ounces of red table wine contains 20 grams of alcohol. How many Calories from alcohol is this?
 - A. 40
 - B. 80
 - C. 110
 - D. 140
 - E. 180

ANS: D REF: 15 TOP: 1.2

- 2. Which answer best defines dietary moderation?
 - A. No unwanted substance in excess
 - B. A mixture of food groups
 - C. Foods that maintain a healthy body weight
 - D. Different foods used for the same purpose
 - E. Impairment of health from toxicity

ANS: A REF: 7 TOP: 1.1

- 3. Which of the following factors affect food choices?
 - A. Food availability
 - B. Taste preference
 - C. Cultural traditions
 - D. Social/economic status
 - E. All of these

ANS: E REF: 8-10 TOP: 1.1

4.	 Which statement(s) is/are true A. It is the medium for meta B. It is found in beverages b C. It is converted to adenosi D. A and B are true. E. A, B, and C are true. 	bolism. ut not foods.	
	ANS: A	REF: 32	TOP: 1.5
5.	A. Energy-producing nutrier	producing nutrient.	ncing nutrients?
	ANS: C	REF: 4 29	TOP: 1.1 1.5
6.	Which statement is false regard. A. They contain more than of B. The essential fatty acids at C. They are liquid at room to D. They are concentrated in E. They provide 9 Calories parts.	are polyunsaturated. emperature. animal food sources.	
	ANS: D	REF: 22	TOP: 1.4
7.	Which of the following answer A. Fructose, sucrose B. Fructose, galactose C. Sucrose, lactose D. Maltose, glucose E. Starch, fiber	ers includes polysaccharides?	
	ANS: E	REF: 12	TOP: 1.2
8.	An excellent food source of contract. A. seafood. B. cooking oils. C. fruits. D. vegetables. E. grains.		TOP 12
	ANS: A	REF: 19	TOP: 1.3
9.	 How are carbohydrates categor A. Simple and complex B. Complete and incomplete C. Fat soluble and water solution D. Major and trace E. Caloric and noncaloric 		
	ANS: A	REF: 12	TOP: 1.2

10.	A. B. C. D.	w are vitamins categorized? Simple and complex Complete and incomplete Fat soluble and water solu Major and trace Triglycerides, phospholipi	ble	
	AN	S: C	REF: 29	TOP: 1.5
11.	A. B. C. D.	•	non-essential amino acids. ant amino acids. ds and base-containing amino acids. and fat-soluble amino acids.	
	AN	S: A	REF: 17	TOP: 1.3
12.	A. B. C.	ich of the following answer Thiamin, niacin, riboflavin Niacin, biotin, riboflavin, Thiamin, pantothenic acid Vitamin B ₁₂ , vitamin E, vi Folate, molybdenum, vitar	choline , riboflavin, vitamin B ₆ tamin C, biotin	ineral?
	AN	S: E	REF: 29 31	TOP: 1.5
13.	A. B. C. D.	Iron, zinc, and magnesium	nloride selenium inc	
	AN	S: E	REF: 31	TOP: 1.5
14.	A. B. C. D. E.	saturated and conjugated polyunsaturated and mono saturated and monounsaturated and polyunsatura	rated ited	ids: TOP: 1.4
				10P: 1.4
15.	A. B. C. D. E.	, ,	id, and chromium eic acid iacin and copper	TOP 1.5
	AN	S: D	REF: 29	TOP: 1.5

16.	A. B. C. D.	Which of the following is not a function of minerals in the human body? A. Bone structure B. Coenzyme C. pH balance D. Emulsifier			
	E.	Fluid regulation S: D	REF: 30	TOP: 1.5	
17.	A. B. C. D.	They contain double bond They are healthy when eat They are essential.	en in moderation. g when eaten in excess.		
	ANS	S: D	REF: 21	TOP: 1.4	
18.	A. B. C.	alorie is a measure of fiber energy nutrient density water content fat	_ in food.		
	ANS	S: B	REF: 3	TOP: 1.1	
19.	A. B. C. D.	ich food provides an anima Chicken Fish Milk Wheat Eggs	l source of carbohydrate?		
	ANS	S: C	REF: 14	TOP: 1.2	

Exam C

1.	The term <i>health</i> means a person has no contagious diseases.		
	ANS: F	REF: 5	TOP: 1.1
2.	Dietary protein is the preferred	fuel source for the human body.	
	ANS: F	REF: 12	TOP: 1.2
3.	To be an organic compound, the	ne compound must contain the eleme	ent nitrogen.
	ANS: F	REF: 12	TOP: 1.2
4.	Satiety is more psychological t	han physiological.	
	ANS: F	REF: 8	TOP: 1.1
5.	Nonessential amino acids prov	ide 4 Calories per gram.	
	ANS: T	REF: 17	TOP: 1.3
6.	Incomplete proteins are found	in grain-based food sources.	
	ANS: T	REF: 18	TOP: 1.3
7.	Triglycerides, phospholipids, a	and sterols contain 9 Calories per gra	ım.
	ANS: F	REF: 21 25 26	TOP: 1.4
8.	Unsaturated fatty acids chemic	ally contain one or more double bon	nds between their carbon molecules.
	ANS: T	REF: 21-22	TOP: 1.4
9.	Essential minerals are elements	s made by plants.	
	ANS: F	REF: 29-30	TOP: 1.5
10.	White muscle meat provides an	n exogenous source of cholesterol.	
	ANS: T	REF: 26	TOP: 1.4
11.	. Cholesterol can be used by the body to synthesize sex hormones.		
	ANS: T	REF: 26 27	TOP: 1.4
12.	Fat-soluble vitamins are organ	ic compounds.	
	ANS: T	REF: 28 29	TOP: 1.5

13.	Combining milk and meat is as	k and meat is an example of protein complementation.			
	ANS: F	REF: 18	TOP: 1.3		
14.	The cholesterol sources for the	body can be exogenous and endoge	enous.		
	ANS: T	REF: 26	TOP: 1.4		
15.	Minimal water intake should b	e at least 1 milliliter/Calorie expend	ed.		
	ANS: T	REF: 32	TOP: 1.5		
16.	The over-consumption of an es	ssential nutrient can lead to toxic sig	ns and symptoms in the body.		
	ANS: T	REF: 7 29	TOP: 1.1 1.5		
17.	Water is an essential inorganic	compound.			
	ANS: T	REF: 32	TOP: 1.5		
18.	Biological classification is a sy	vstem used to group different cell ty	pes.		
	ANS: F	REF: 4 5	TOP: 1.1		
19.	Milk-based food contains carb	ohydrate.			
	ANS: T	REF: 14	TOP: 1.2		
20.	Skim milk is a low-quality pro	tein source.			
	ANS: F	REF: 19	TOP: 1.3		
Mι	ıltiple Choice				
1.	Saturated fatty acids such as st A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram.	earic acid provide:			
	ANS: E	REF: 21	TOP: 1.4		
2.	Sterols provide: A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram.				
	ANS: A	REF: 26	TOP: 1.4		

3.	 Soy protein provides: A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram. 		
	ANS: C	REF: 4 17	TOP: 1.1 1.3
4.	Vitamin D provides: A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram.		
	ANS: A	REF: 4 29	TOP: 1.1 1.5
5.		ead containing 15 grams of digestib any total Calories would this provid	le carbohydrate, 3 grams of protein, and 1 gram de?
	ANS: D	REF: 4	TOP: 1.1
6.	Which answer best describes A. Tissue repair B. Medium for metabolism C. Preferred and fastest end D. Component of cell mem E. Synthesis of sex hormon	ergy source brane structure	
	ANS: D	REF: 25	TOP: 1.4
7.	 Which answer best describes A. Tissue repair B. Medium for metabolism C. Converted to adenosine D. Enzyme cofactor E. Building blocks for vita 	triphosphate energy	
	ANS: C	REF: 12	TOP: 1.2
8.	Which answer best describes A. Tissue repair B. Medium for metabolism C. Energy storage and soun D. Enzyme cofactor E. Synthesis of sex hormon	rce	
	ANS: C	REF: 21 22-23	TOP: 1.4

).	 Which of the following answers includes characteristics of a sound diet? A. A plant-based diet B. A diet rich in animal foods C. A diet with Calorie control and moderation D. A diet providing more than adequate amounts of nutrients E. All of the above 				
	ANS: C	REF: 7	TOP: 1.1		
10.	A trace mineral is found in am A. 1 milligram B. 5 Kilograms C. 5 grams D. 7 grams E. None of the above	ounts less than or equal to in	the adult reference body.		
	ANS: C	REF: 31	TOP: 1.5		
11.	Galactose is categorized as a _A. monosaccharide; disaccha B. fatty acid; triglyceride C. nonessential amino acid; o D. simple sugar; fiber E. digestible carbohydrate; e	complex protein	a		
	ANS: A	REF: 12	TOP: 1.2		
12.	What is the unique element in A. Nitrogen B. Oxygen C. Carbon D. Cobalt E. Hydrogen	non-essential amino acids not found	l in fatty acids?		
	ANS: A	REF: 17 20	TOP: 1.3 1.4		
13.	Which of the following are ess A. Oleic acid and stearic acid B. Linoleic acid and alpha-li C. Glutamic acid and acetic a D. Trypthphan and glutamine E. Cysteine and methionine	l nolenic acid acid			
	ANS: B	REF: 22	TOP: 1.4		
14.	Monounsaturated fatty acids a A. sunflower oil. B. coconut oil. C. lard. D. almonds. E. chicken fat.	re found the most abundantly in:			
	ANS: D	REF: 21	TOP: 1.4		

15.	Which of the follo A. Potassium B. Sulfur C. Magnesium D. Iron E. Phosphorus	wing is a trace mineral?	
	ANS: D	REF: 21	TOP: 1.5
16.		l selenium lcium, and sulfur	
	ANS: D	REF: 31	TOP: 1.5
17.	A. The vitamin isB. The vitamin pC. The vitamin is	for a vitamin to be termed water soluble? schemically composed of hydrogen and oxygen rovides water for the body. sconcentrated in drinking water. synthesized in the body from water. issolves in water.	
	ANS: E	REF: 29	TOP: 1.5
18.	Which of the follo A. Galactose B. Thiamin C. Cholesterol D. Silicone E. Oleic acid	wing is an essential nutrient?	
	ANS: B	REF: 29	TOP: 1.5
19.	Which of the follo A. Sorbitol B. Sucrose C. Lactose D. Maltose E. Glucose	wing is also known as blood sugar?	
	ANS: E	REF: 12	TOP: 1.2
20.	What is the physic A. Hunger B. Appetite C. Satiety D. Homeostasis E. Dehydration	logical need for food?	
	ANS: A	REF: 8	TOP: 1.1

21.	Which food below provides a source of both protein and carbohydrate? A. Egg B. Chicken C. Olive oil D. Broccoli E. Orange			
	ANS: D	REF: 14 18	TOP: 1.2 1.3	
22.	The essential fatty acids are: A. solid at room temperatur B. omega-3 fatty acids. C. found in dairy products. D. found in plant oils. E. monounsaturated.	e.		
	ANS: D	REF: 22	TOP: 1.4	
23.	Alcohol is: A. a central nervous system B. a good source of essentia C. the most energy-dense di D. an inorganic compound. E. a drug.	l nutrients.		
	ANS: E	REF: 15	TOP: 1.2	
24.	Which of the following stater A. It is made by energy tran B. It is the ultimate form of C. It is potential energy for D. It allows the human body E. It can be generated by br	energy. the human body. y to do work.	phosphate?	
	ANS: E	REF: 6	TOP: 1.1	
25.	Which statement most closely A. A unit used to measure n B. Found in organic and inc C. The energy potential of f D. A macronutrient E. Another term for dietary	utrient density in food organic material ood		
	ANS: C	REF: 3	TOP: 1.1	
26.	Which of the following is fals A. It is found in animal food B. It provides 0 Calories pec C. It is a complex carbohyd D. It contains beta-linked gl E. There is a recommend in	ds. r gram. rate. ucose units. take level for it.		
	ANS: A	REF: 13 14	TOP: 1.2	

27.	Which statement most of A. A route to achievin B. A low carbohydrate C. Nutritional adequate D. The kind and amout E. A weight-loss or w		
	ANS: D	REF: 3	TOP: 1.1
28.	Starch contains glucose A. alpha bonds. B. beta bonds. C. chi bonds. D. delta bonds. E. gamma bonds.	units linked together by:	
	ANS: A	REF: 13	TOP: 1.2
29.	Which substance below A. Starch B. Fiber C. Protein D. Sterols E. Triglycerides	is the most calorically dense?	
	ANS: E	REF: 21	TOP: 1.4
30.	Which of the followingA. Regulate fluid balaB. Provide CaloriesC. Support weight losD. Promote excretionE. Maintain cell mem	S	
	ANS: A	REF: 30	TOP: 1.5

Exam D

1.	The term <i>health</i> applies to the physical health of a person only.		
	ANS: F	REF: 5	TOP: 1.1
2.	Dietary fat is the preferred fue	l source for the human body.	
	ANS: F	REF: 12	TOP: 1.2
3.	Organic compounds contain se	everal elements chemically bound to	gether, including the element carbon.
	ANS: T	REF: 12	TOP: 1.2
4.	Malnutrition includes overnutr	ition and undernutrition.	
	ANS: T	REF: 7	TOP: 1.1
5.	One twelve-ounce can of regul	lar cola soda contains 40 grams of su	ugars. This would supply 120 Calories
	ANS: F	REF: 4 12	TOP: 1.1 1.2
6.	Incomplete proteins are found	in animal food sources.	
	ANS: F	REF: 18-19	TOP: 1.3
7.	7. Triglycerides, phospholipids, and sterols are calorically dense.		
	ANS: F	REF: 21 25 26	TOP: 1.4
8.	Saturated fatty acids chemically contain one or more double bonds between their carbon molecules.		
	ANS: F	REF: 21	TOP: 1.4
9.	Essential minerals are element	s naturally found in earth.	
	ANS: T	REF: 29-30	TOP: 1.5
10.	Vegetables provide an exogene	ous source of cholesterol.	
	ANS: F	REF: 26	TOP: 1.4
11.	Cholesterol can be used by the	body to synthesize vitamin D.	
	ANS: T	REF: 26	TOP: 1.4
12.	Water-soluble vitamins are org	ganic compounds.	
	ANS: T	REF: 28 29	TOP: 1.5

Multiple Choice

ANS: T

- 1. Amylose provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.

ANS: C REF: 12|13

REF: 19

- 2. Amino acids provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.

ANS: C REF: 17

TOP: 1.3

TOP: 1.2

TOP: 1.3

3.	Salt provides:					
	A. 0 Calories per gra	ım.				
	B. 2 Calories per gra	ım.				
	C. 4 Calories per gra	ım.				
	D. 7 Calories per gra					
	E. 9 Calories per gra	ım.				
	ANS: A	REF: 30 31}33	TOP: 1.5			
4.	1					
	A. 0 Calories per gra					
	B. 2 Calories per gra					
	C. 4 Calories per gra					
	D. 7 Calories per gra					
	E. 9 Calories per gra	ım.				
	ANS: A	REF: 26	TOP: 1.4			
5.	Water provides:					
	A. 0 Calories per gra					
	B. 2 Calories per gra					
	C. 4 Calories per gra					
	D. 7 Calories per gra					
	E. 9 Calories per gra	ım.				
	ANS: A	REF: 4 32	TOP: 1.1 1.5			
6.	Which answer best describes the function of protein?					
	A. Tissue repair					
	B. Medium for metabolism					
	C. Preferred and fastest energy source					
	D. Enzyme cofactor					
	E. Synthesis of sex l	normones				
	ANS: A	REF: 17	TOP: 1.3			
7.	Which answer best describes the function of vitamins?					
	A. Tissue repair					
	B. Medium for metabolism					
	C. Preferred and fastest energy source					
	D. Enzyme cofactor					
	E. Synthesis of sex l	normones				
	ANS: D	REF: 29	TOP: 1.5			
8.		Which answer best describes the function of sterols?				
	A. Tissue repair					
	B. Medium for meta					
	C. Preferred and fast	test energy source				
	D. Enzyme cofactor					
	E. Synthesis of sex l	normones				
	ANS: E	REF: 26-27	TOP: 1.4			

).	Which of the following answers includes characteristics of a sound diet? A. Low carbohydrate, high protein B. Calorie control, low fat C. Balance and variety D. More than adequate E. All of the above		
	ANS: C	REF: 7	TOP: 1.1
10.	A major mineral is found in an A. 1 gram B. 500 milligrams C. 5 grams D. 7 grams E. 2.5 grams	nounts greater than in the adu	ılt reference body.
	ANS: C	REF: 31	TOP: 1.5
11.	Protein is categorized as	nigh quality or low quality le or complex s or nonsterols	as
	ANS: A	REF: 17	TOP: 1.3
12.	What is the unique element in A. Nitrogen B. Oxygen C. Carbon D. Cobalt E. Hydrogen	protein not found in starch?	
	ANS: A	REF: 11 13 17	TOP: 1.2 1.3
13.	Which of the following answer A. Lactose and galactose B. Fructose and glucose C. Glucose and sucrose D. Lactose and maltose E. Cysteine and methionine	rs includes only monosaccharides?	
	ANS: B	REF: 12	TOP: 1.2
14.	Monounsaturated fatty acids an A. sunflower oil. B. coconut oil. C. lard. D. olive oil. E. chicken fat.	re found abundantly in:	
	ANS: D	REF: 21	TOP: 1.4

15.	Which of the following is NOTA. Sodium B. Sulfur C. Chloride D. Iron E. Calcium	Γ a major mineral?	
	ANS: D	REF: 31	TOP: 1.5
16.	Which of the following is a distance A. Galactose B. Glutamine C. Manganese D. Maltose E. Adenosine triphosphate	saccharide?	
	ANS: D	REF: 12	TOP: 1.2
17.	Which of the following answer A. Niacin, pantothenic acid, a B. Folate, biotin, molybdenu C. Zinc, iron, iodine, and sele D. Potassium, calcium, sulfur E. Chloride, sodium, magnes	m, and Iron enium r, and zinc	
	ANS: C	REF: 31	TOP: 1.5
18.	What does it mean for a vitam A. The vitamin provides 9 Ca B. The vitamin provides insu C. The vitamin dissolves in f D. The vitamin is synthesized E. None of the above ANS: C	alories per gram. lation for the body. at.	TOP: 1.5
10			10r. 1.3
19.	What is the psychological desi A. Hunger B. Appetite C. Satiety D. Homeostasis E. Dehydration		TOD, 1.1
	ANS: B	REF: 8	TOP: 1.1
20.	Which of the following is also A. Sorbitol B. Sucrose C. Lactose D. Maltose E. Glucose	known as milk sugar?	
	ANS: C	REF: 12	TOP: 1.2

21.	The essential fatty acids are: A. monounsaturated. B. carriers of the trace mine C. found in the highest level D. found in the highest level E. solid at room temperature	ls in plant oils. Is in animal meat.	
	ANS: C	REF: 22	TOP: 1.4
22.	Which food below provides the A. Egg B. Steak C. Crisco D. Soybeans E. Potato	ne best source of cholesterol and pho	spholipids?
	ANS: A	REF: 26	TOP: 1.4
23.	Alcohol is: A. a stimulant. B. a depressant. C. a non-caloric substance. D. a micronutrient. E. nutrient dense.		
	ANS: B	REF: 8 15	TOP: 1.1 1.2
24.	Fiber contains glucose units la A. alpha bonds. B. beta bonds. C. chi bonds. D. delta bonds. E. gamma bonds.	inked together by:	
	ANS: B	REF: 13	TOP: 1.2
25.	The number of essential fatty A. 11. B. 9. C. 7. D. 2. E. 0.	acids in adult human nutrition is:	
	ANS: D	REF: 22	TOP: 1.4
26.	Which of the following is a functionA. Provide energyB. Regulate pH balanceC. Promote weight lossD. Medium for neurologicalE. Maintain cell membrane	signals	
	ANS: B	REF: 30	TOP: 1.5

27.	A. B. C. D.	It is formed from fat-solub	e, amino acids, and fatty acids. sed for energy. to do work.	ohosphate?
	ANS	: A	REF: 6	TOP: 1.1
28.	A. B. C. D.	alorie is: a unit used to measure ene measured in food using a t the amount of heat energy All the above None of the above	C.	1 degree Celsius.
	ANS	: D	REF: 3	TOP: 1.1
29.	A. B. C. D.	ch of the following is true It is found in plant and ani It provides 4 Calories per a It is a simple carbohydrate It is used for tissue repair a There is a recommend inta	mal foods. gram and maintenance.	
	ANS	: E	REF: 13 14	TOP: 1.2
30.	A. B.	is defined as: a weight-loss program. a high-protein, low-carboh the kind and amount of foo	ydrate food intake program. od eaten each day.	

D. variety, moderation, and balance in food composition.

REF: 3

E. a route to malnutrition.

ANS: C

TOP: 1.1

Practice Exam

1.	There are numerous different cell types in the human body.		
	ANS: T	REF: 5	TOP: 1.1
2.	Vegetables provide a source of	f incomplete, low-quality protein.	
	ANS: T	REF: 18	TOP: 1.3
3.	Sterols are calorically dense.		
	ANS: F	REF: 26	TOP: 1.4
4.	Oleic acid is an essential fatty	acid.	
	ANS: F	REF: 22	TOP: 1.4
5.	Starch provides 4 Calories per	gram.	
	ANS: T	REF: 12	TOP: 1.2
6.	Calcium is an organic element		
	ANS: F	REF: 30 31	TOP: 1.5
7.	Some minerals function in acid	d-base balance in the body.	
	ANS: T	REF: 30	TOP: 1.5
8.	Plant foods are an exogenous source of cholesterol.		
	ANS: F	REF: 26	TOP: 1.4
9.	Every amino acid contains nitr	rogen.	
	ANS: T	REF: 17	TOP: 1.3
10.	. Eating a peanut butter sandwich qualifies as protein complementation.		
	ANS: T	REF: 18	TOP: 1.3
11.	Protein provided from plant foods is considered to have low biological value.		
	ANS: T	REF: 18	TOP: 1.3
12.	Cholesterol can be used by the	body to produce vitamin D.	
	ANS: T	REF: 26	TOP: 1.4

13.	Minerals are organic compound	ds.			
	ANS: F	REF: 30	TOP: 1.5		
14.	Sodium is a major mineral.				
	ANS: T	REF: 31	TOP: 1.5		
15.	Adenosine triphosphate is prod	luced in the mitochondria of cells.			
	ANS: T	REF: 6	TOP: 1.1		
16.	Some fatty acids are essential.				
	ANS: T	REF: 22	TOP: 1.4		
17.	Water provides the medium for	r metabolism.			
	ANS: T	REF: 32	TOP: 1.5		
18.	Nutrient density refers to the an	mount of vitamins in relation to mir	nerals.		
	ANS: F	REF: 3	TOP: 1.1		
19.	Moderation means that the diet	t is not deficient in an essential nutr	ient.		
	ANS: F	REF: 7	TOP: 1.1		
20.	Alcohol is chemically closely i	related to sterols.			
	ANS: F	REF: 8 15	TOP: 1.1 1.2		
Μι	Multiple Choice				
Ι.	Maltose provides: A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram.	DEE. 12	TOP, 1.2		
	ANS: C	REF: 12	TOP: 1.2		
2.	Fiber provides: A. 0 Calories per gram. B. 2 Calories per gram. C. 4 Calories per gram. D. 7 Calories per gram. E. 9 Calories per gram.	DEE 10	TOP 12		
	ANS: A	REF: 13	TOP: 1.2		

3.	Fatty acids provide:					
	A. 0 Calories per gram					
	B. 2 Calories per gram					
	C. 4 Calories per gram					
	D. 7 Calories per gram					
	E. 9 Calories per gram					
	ANS: E	REF: 21	TOP: 1.4			
4.	Plant protein provides:					
	A. 0 Calories per gram					
	B. 2 Calories per gram					
	C. 4 Calories per gram					
	D. 7 Calories per gram					
	E. 9 Calories per gram					
	ANS: C	REF: 4 17	TOP: 1.1 1.3			
5.	Major minerals provides					
	A. 0 Calories per gram					
	B. 2 Calories per gram					
	C. 4 Calories per gram					
	D. 7 Calories per gram					
	E. 9 Calories per gram					
	ANS: A	REF: 4 30	TOP: 1.1 1.5			
6.	Which of the following is a function of minerals?					
	A. Provide 4 Calories per gram					
	B. Regulate fluid balance					
	C. Speed up metabolism					
		D. Are converted to stored fat when in excess				
	E. Make up cell memb	oranes				
	ANS: B	REF: 30	TOP: 1.5			
7.		statements is true about cholesterol?				
	A. It is an essential nutrient.					
	B. It can be synthesized (made) inside the body.					
	C. It provides 9 Calories per gram.					
		nzyme cofactor in metabolism.				
	E. All of the above are	true.				
	ANS: B	REF: 26	TOP: 1.4			
8.	Which of the following answers includes only vitamins?					
	A. Thiamin, iron, glucose					
	B. Folate, iodine, chromium					
	C. Pantothenic acid, biotin, vitamin C					
	D. Calcium, cholesterol, cobaltE. Phosphorus, sulfur, fructose					
	E. Phosphorus, sulfur,	nuciose				
	ANS: C	REF: 29	TOP: 1.5			

9.	Which of the following dietary A. Sugars B. Fiber C. Amino acids D. Vitamins E. Water	substances may function as an enzy	yme cofactor?
	ANS: D	REF: 29	TOP: 1.5
10.	The human body prefers to butA. CarbohydratesB. ProteinsC. PhospholipidsD. SterolsE. Water	rn for energy.	
	ANS: A	REF: 12	TOP: 1.2
11.	How are minerals categorized A. Fat or water soluble B. Major and trace C. Organic and inorganic D. Essential and nonessential E. Blood or bone		
	ANS: B	REF: 30	TOP: 1.5
12.	A. Animal fatB. Soybean oilC. ButterD. Olive oilE. Coconut oil	is predominately a source of polyuns	saturated fatty acids? TOP: 1.4
	ANS: B	REF: 24	10P: 1.4
13.	Phospholipids are used to mak A. Proteins B. Fat C. Cell membranes D. Bone E. ATP	e:	
	ANS: C	REF: 25	TOP: 1.4
14.	 What does it mean for an essential mineral to be labeled as "trace"? A. The total quantity of the mineral in the adult reference male body is less than or equal to 1 gram. B. The total quantity of the mineral in the adult reference male body is less than or equal to 2 grams. C. The total quantity of the mineral in the adult reference male body is less than or equal to 3 grams. D. The total quantity of the mineral in the adult reference male body is less than or equal to 4 grams. E. The total quantity of the mineral in the adult reference male body is less than or equal to 5 grams. 		
	ANS: E	REF: 31	TOP: 1.5
15.	Characteristics of a sound diet A. low carbohydrate and high		

	B. Calorie control aC. moderation, balaD. A and CE. B and C	nd nutritional adequacy. nce, and variety.	
	ANS: E	REF: 7	TOP: 1.1
16.	Macronutrients included. A. water, protein, and B. fat, carbohydrated. C. protein, fat, and of D. carbohydrate, min	nd minerals. , and vitamins. earbohydrate.	
	ANS: C	REF: 5	TOP: 1.1
17.	Four calories per grant A. fat and cholestere B. carbohydrates and C. protein and fat-se D. carbohydrates and fat-se D.	ol. d alcohol. oluble vitamins.	
	ANS: D	REF: 4	TOP: 1.1
18.	Organic means that the A. carbon containing B. wholesome. C. steroid free. D. pesticide free.		
	ANS: A	REF: 12	TOP: 1.2
19.	Organic compounds in A. water and fat. B. phospholipids an C. cholesterol and in D. carbohydrates an	d protein. ninerals.	
	ANS: B	REF: 17 20	TOP: 1.3 1.4
20.	The categories of card A. high quality and B. essential and nor C. soluble and insol D. simple and comp	low quality. essential. uble.	
	ANS: D	REF: 12	TOP: 1.2
21.	Monosaccharides inc A. lactose and malto B. fructose and gala C. glucose and sucr D. glucose and malto	ose. ctose. ose.	
	ANS: B	REF: 12	TOP: 1.2
22.	Which fatty acids have no double bonds?		

	B. C.	A. Saturated fatty acids B. Monounsaturated fatty acids C. Polyunsaturated fatty acids D. Trans fatty acids			
	AN	S: A	REF: 21	TOP: 1.4	
23.	A. B. C.	ood food source of monour safflower oil. palm oil. peanut oil. canola oil.	nsaturated fatty acids is:		
	AN	S: D	REF: 21	TOP: 1.4	
24.	 24. Which of the following scenarios could lead to "malnutrition"? A. A person is taking single-nutrient supplements every day at a level well above the tolerable upper level (UL). B. A person is chronically under-consuming total Calories in their diet. C. A person is chronically over-consuming total Calories in their diet. D. B and C E. A, B, and C. 		ir diet.		
	AN	S: E	REF: 7	TOP: 1.1	
25.	A. B. C. D.	ich of the following foods v Ice cream French fries Yogurt Water S: C	would have the most nutrient density REF: 3 4	y? TOP: 1.1	
 26. Which of the following factors could affect food choice? A. Knowledge B. Availability C. Social factors D. Economics E. All of the above 					
	AN	S: E	REF: 9-10	TOP: 1.1	
27.	A. B. C. D.	imple carbohydrate source of bread. rice. pasta. fruit. legumes.	would be:		
	AN	S: D	REF: 12 14	TOP: 1.2	
28.	A. B. C.	ich nutrient would add the Fat Protein Carbohydrate Vitamins	best satiety value to a meal?		

E. Minerals

ANS: A REF: 8|22 TOP: 1.1|1.4

- 29. Choose one of the following answers that includes only the trace minerals.
 - A. Calcium, iron, and copper
 - B. Iron, zinc, and iodine
 - C. Magnesium, cobalt, and selenium
 - D. Phosphorus, fluoride, and chromium
 - E. Fluoride, cobalt, and sulfur

ANS: B REF: 31 TOP: 1.5

- 30. How much water intake is needed to stay in water balance?
 - A. 0.5 milliliters per Calorie expended
 - B. 1.0 milliliters per Calorie expended
 - C. 1.5 milliliters per Calorie expended
 - D. 2.0 milliliters per Calorie expended

ANS: B REF: 32 TOP: 1.5

Ready-to-Print Module 1 Exam A

True/False

- 1. Health is complete physical, mental, and social well-being, not just the absence of infirmity.
- 2. Malnutrition refers to the impairment of health resulting only from nutrient deficiency.
- 3. Alcohol is a central nervous system depressant.
- 4. Combining rice with vegetables is an example of protein complementation.
- 5. Minerals are organic compounds.
- 6. Linoleic acid is an essential fatty acid.
- 7. Polyunsaturated fatty acids contain more than one double bond between the carbon molecules.
- 8. Cholesterol is an essential nutrient.
- 9. If a mineral is found in the adult reference male body at a level of 2.4 grams, then it would be considered a major mineral.
- 10. Plant proteins are incomplete, low-quality proteins that are limited in one or more essential amino acids.
- 11. Dietary fat intake should be as low as possible for optimal health.
- 12. Fats high in polyunsaturated fatty acids are solid at room temperature.
- 13. Cellulose is non-caloric because it is a fiber.
- 14. Fruit provides a carbohydrate food source.
- 15. The essential fatty acids are polyunsaturated.
- 16. Cheese provides a source of incomplete, low-quality protein.
- 17. Soybeans provide a source of cholesterol and phospholipids.
- 18. Adenosine triphosphate is produced inside the cell nucleus.
- 19. Dietary fibers are complex carbohydrates.
- 20. Hunger is the physiological need for food.

Matching

Match the energy-yielding food component with its energy yield. Choose the best answer. You may use some answers more than once or not at all.

- A. 0 Calories per gram
- B. 2 Calories per gram
- C. 4 Calories per gram
- D. 7 Calories per gram
- E. 9 Calories per gram

- 1. Sucrose provides:
- 2. Alcohol provides:
- 3. Protein provides:
- 4. Triglycerides provide:
- 5. Vitamins provide:

Match the short phrase or term with the associated short phrase or term. Choose the best answer. You may use some answers more than once or not at all.

- A. Tissue repair
- B. Medium for metabolism
- C. Preferred and fastest energy source
- D. Enzyme cofactor
- E. Cell membranes
- 6. Function of carbohydrates
- 7. Function of phospholipids
- 8. Function of water

Multiple Choice

- 1. What is food?
 - A. Anything that enters the body through the mouth
 - B. Substances nonessential for the body
 - C. Anything that nourishes the body
 - D. Substances that provide fiber
 - E. The medium for metabolism
- 2. Which of the following is a macronutrient?
 - A. Minerals
 - B. Vitamins
 - C. Protein
 - D. A and B
 - E. A, B, and C
- 3. The nutritional science definition of *organic* is:
 - A. chemically free.
 - B. hydrogenated.
 - C. water bound.
 - D. living.
 - E. carbon containing.
- 4. A person who consumes an inadequate amount of protein may:
 - A. have less potential for tissue repair.
 - B. experience greater kinetic energy.
 - C. become deficient in cholesterol.
 - D. age more gracefully.
 - E. lack the preferred fuel source.
- 5. Which of the following is an essential and inorganic nutrient?
 - A. Linoleic acid
 - B. Folic acid
 - C. Iodine
 - D. Cellulose
 - E. Lecithin

- 6. Which of the following is an essential and organic nutrient?
 - A. Cholesterol
 - B. Oleic acid
 - C. Manganese
 - D. Thiamin
 - E. Water
- 7. Which fatty acids have no carbon-carbon double bonds?
 - A. Saturated fatty acids
 - B. Monounsaturated fatty acids
 - C. Polyunsaturated fatty acids
 - D. Trans fatty acids
 - E. Cis fatty acids
- 8. Longevity is affected by:
 - A. diet.
 - B. exercise.
 - C. habits such as smoking and alcohol consumption.
 - D. A and B only
 - E. A, B and C
- 9. Which of the following is a characteristic of a sound diet?
 - A. Adequacy
 - B. Balance
 - C. Moderation
 - D. Variety
 - E. All of the above
- 10. Satiety is best described as the:
 - A. feeling of fullness.
 - B. need to eat.
 - C. desire for food.
 - D. process of drinking water.
 - E. state of complete wellbeing.
- 11. Which statement(s) is/are true about water?
 - A. It is an organic compound.
 - B. Deficiency can occur rapidly.
 - C. An adequate intake for all adults is 0.5 milliliters per Calorie expended.
 - D. A and B are true.
 - E. A, B, and C are true.
- 12. Which statement(s) is/are true regarding energy-producing nutrients?
 - A. Energy-producing nutrients are organic compounds.
 - B. Energy-producing nutrients are inorganic compounds.
 - C. Energy-producing nutrients are elements.
 - D. Protein, carbohydrate, and fat are energy-producing nutrients.
 - E. Both A and D are true statements.
- 13. Which element can be found in amino acids but not fatty acids?
 - A. Hydrogen
 - B. Zinc
 - C. Nitrogen
 - D. Selenium
 - E. Oxygen

- 14. What are the three most common disaccharides consumed in the diet?
 - A. Fructose, sucrose, ribose
 - B. Fructose, glucose, galactose
 - C. Sucrose, maltose, lactose
 - D. Maltose, glucose, fructose
 - E. Amylose, cellulose, sucrose
- 15. Food sources of carbohydrate include:
 - A. milk.
 - B. cereal.
 - C. fruit.
 - D. All of the above
 - E. None of the above
- 16. How are lipids/fats categorized?
 - A. Simple and complex
 - B. Complete and incomplete
 - C. Saturated and unsaturated
 - D. Major and trace
 - E. Triglycerides, phospholipids, and sterols
- 17. How are carbohydrates categorized?
 - A. Simple and complex
 - B. Complete and incomplete
 - C. Organic and inorganic
 - D. Major and trace
 - E. Digestible and indigestible
- 18. The two categories of amino acids are:
 - A. essential amino acids and non-essential amino acids.
 - B. complete amino acids and incomplete amino acids.
 - C. branched-chain amino acids and sulfur-containing amino acids.
 - D. water-soluble amino acids and fat-soluble amino acids.
 - E. macro-amino acids and micro-amino acids.
- 19. Which of the following answers includes only water-soluble vitamins?
 - A. Thiamin, niacin, riboflavin, vitamin C
 - B. Niacin, biotin, zinc, choline
 - C. Thiamin, chromium, riboflavin, vitamin B₆
 - D. Vitamin B₁₂, vitamin E, vitamin C, biotin
 - E. Folate, iron, vitamin C, zinc
- 20. Which of the following answers includes only major minerals?
 - A. Iron, zinc, and magnesium
 - B. Sodium, potassium, and chloride
 - C. Calcium, phosphorus, and selenium
 - D. Magnesium, copper, and zinc
 - E. Fluoride, iodine, and chromium
- 21. Which type of fatty acid is found at high levels in olive oil?
 - A. Saturated fatty acids
 - B. Monounsaturated fatty acids
 - C. Polyunsaturated fatty acids
 - D. Trans fatty acids
 - E. Monoglycerides

22.	Of the energy-producing nutrients,	could be consumed as the lowest percentage of total Calories within
	the recommended dietary intake level.	

- A. Carbohydrate
- B. Minerals
- C. Fat
- D. Protein
- E. Vitamins

Ready-to-Print Module 1 Exam B

True/False

- 1. Appetite is defined as the psychological desire for food.
- 2. Malnutrition can include excessive intake of a nutrient.
- 3. Cellulose is a phospholipid.
- 4. Combining fruit and vegetables is an example of protein complementation.
- 5. Alpha-linolenic acid is an essential fatty acid.
- 6. A lack of daily physical activity reduces longevity.
- 7. Sources of fat with high amounts of saturated fatty acids are solid at room temperature.
- 8. Adequate amounts of cholesterol are synthesized by the adult human liver.
- 9. If a mineral is found in the adult reference body at a level of 6.4 grams, then it would be considered a major mineral.
- 10. Animal proteins are complete proteins.
- 11. Cholesterol can be used to make bile within the human body.
- 12. Organic compounds contain the element carbon.
- 13. Appetite is the psychological desire for food.
- 14. Vitamins can function in acid-base balance.
- 15. The human body can make essential nutrients.
- 16. Water is an inorganic compound.
- 17. Humans are comprised of cells of the same type throughout the body.
- 18. When a person is thirsty s/he is not yet dehydrated.
- 19. Food is anything edible that nourishes the body.
- 20. For optimal health, a majority of Calories in the diet should come from protein.

Matching

Match the energy-yielding food component with its energy yield. Choose the best answer. You may use some answers more than once or not at all.

- A. 0 Calories per gram
- B. 2 Calories per gram
- C. 4 Calories per gram
- D. 7 Calories per gram
- E. 9 Calories per gram

- 1. Fructose provides:
- 2. Starch provides:
- 3. Cellulose provides:
- 4. Triglycerides provide:
- 5. Calcium provides:
- 6. Animal protein provides:

Match the short phrase or term with the associated short phrase or term. Choose the best answer. You may use some answers more than once or not at all.

- A. Contain nitrogen
- B. Contain alpha-linked glucose
- C. Are inorganic and needed in tiny amounts
- D. Are organic and needed in tiny amounts
- E. Form membrane bilayers
- 7. Digestible polysaccharides:
- 8. Proteins:
- 9. Phospholipids:
- 10. Minerals:
- 11. Vitamins:

- 1. Six ounces of red table wine contains 20 grams of alcohol. How many Calories from alcohol is this?
 - A. 40
 - B. 80
 - C. 110
 - D. 140
 - E. 180
- 2. Which answer best defines dietary moderation?
 - A. No unwanted substance in excess
 - B. A mixture of food groups
 - C. Foods that maintain a healthy body weight
 - D. Different foods used for the same purpose
 - E. Impairment of health from toxicity
- 3. Which of the following factors affect food choices?
 - A. Food availability
 - B. Taste preference
 - C. Cultural traditions
 - D. Social/economic status
 - E. All of these
- 4. Which statement(s) is/are true about water?
 - A. It is the medium for metabolism.
 - B. It is found in beverages but not foods.
 - C. It is converted to adenosine triphosphate.
 - D. A and B are true.
 - E. A, B, and C are true.

- 5. Which of the following statements is false regarding energy-producing nutrients?
 - A. Energy-producing nutrients may include organic compounds.
 - B. Energy-producing nutrients may be found in all food groups.
 - C. Vitamins are energy-producing nutrients.
 - D. Protein can be an energy-producing nutrient.
 - E. Fat provides the highest amount of energy per gram.
- 6. Which statement is false regarding polyunsaturated fatty acids?
 - A. They contain more than one double bond.
 - B. The essential fatty acids are polyunsaturated.
 - C. They are liquid at room temperature.
 - D. They are concentrated in animal food sources.
 - E. They provide 9 Calories per gram.
- 7. Which of the following answers includes polysaccharides?
 - A. Fructose, sucrose
 - B. Fructose, galactose
 - C. Sucrose, lactose
 - D. Maltose, glucose
 - E. Starch, fiber
- 8. An excellent food source of complete protein is:
 - A. seafood.
 - B. cooking oils.
 - C. fruits.
 - D. vegetables.
 - E. grains.
- 9. How are carbohydrates categorized?
 - A. Simple and complex
 - B. Complete and incomplete
 - C. Fat soluble and water soluble
 - D. Major and trace
 - E. Caloric and noncaloric
- 10. How are vitamins categorized?
 - A. Simple and complex
 - B. Complete and incomplete
 - C. Fat soluble and water soluble
 - D. Major and trace
 - E. Triglycerides, phospholipids, and sterols
- 11. The two categories of amino acids are:
 - A. essential amino acids and non-essential amino acids.
 - B. animal amino acids and plant amino acids.
 - C. acid-containing amino acids and base-containing amino acids.
 - D. water-soluble amino acids and fat-soluble amino acids.
 - E. macro-amino acids and micro-amino acids.
- 12. Which of the following answers includes three vitamins and one mineral?
 - A. Thiamin, niacin, riboflavin, vitamin C
 - B. Niacin, biotin, riboflavin, choline
 - C. Thiamin, pantothenic acid, riboflavin, vitamin B₆
 - D. Vitamin B₁₂, vitamin E, vitamin C, biotin
 - E. Folate, molybdenum, vitamin C, thiamin

13.	Which of the following answers includes only trace minerals? A. Iron, zinc, and magnesium B. Sodium, potassium, and chloride C. Calcium, phosphorus, and selenium D. Magnesium, copper, and zinc E. Fluoride, iodine, and chromium
14.	The oil from peanuts is composed of predominately fatty acids: A. saturated and conjugated B. polyunsaturated and monounsaturated C. saturated and monounsaturated D. saturated and polyunsaturated E. monounsaturated and trans
15.	 Which of the following answers includes only vitamins? A. Vitamin C, pantothenic acid, and chromium B. Biotin, iron, and folate C. Zinc, vitamin K, and linoleic acid D. Thiamin, riboflavin, and niacin E. Cholecalciferol, calcium, and copper
16.	Which of the following is not a function of minerals in the human body? A. Bone structure B. Coenzyme C. pH balance D. Emulsifier E. Fluid regulation
17.	 Which statement below is true about saturated fatty acids? A. They contain double bonds. B. They are healthy when eaten in moderation. C. They are essential. D. They are disease promoting when eaten in excess. E. They are converted to <i>trans</i> fatty acids.
18.	A Calorie is a measure of in food. A. fiber B. energy C. nutrient density D. water content E. fat
19.	Which food provides an animal source of carbohydrate? A. Chicken B. Fish C. Milk D. Wheat E. Eggs

Ready-to-Print Module 1 Exam C

True/False

- 1. The term *health* means a person has no contagious diseases.
- 2. Dietary protein is the preferred fuel source for the human body.
- 3. To be an organic compound, the compound must contain the element nitrogen.
- 4. Satiety is more psychological than physiological.
- 5. Nonessential amino acids provide 4 Calories per gram.
- 6. Incomplete proteins are found in grain-based food sources.
- 7. Triglycerides, phospholipids, and sterols contain 9 Calories per gram.
- 8. Unsaturated fatty acids chemically contain one or more double bonds between their carbon molecules.
- 9. Essential minerals are elements made by plants.
- 10. White muscle meat provides an exogenous source of cholesterol.
- 11. Cholesterol can be used by the body to synthesize sex hormones.
- 12. Fat-soluble vitamins are organic compounds.
- 13. Combining milk and meat is an example of protein complementation.
- 14. The cholesterol sources for the body can be exogenous and endogenous.
- 15. Minimal water intake should be at least 1 milliliter/Calorie expended.
- 16. The over-consumption of an essential nutrient can lead to toxic signs and symptoms in the body.
- 17. Water is an essential inorganic compound.
- 18. Biological classification is a system used to group different cell types.
- 19. Milk-based food contains carbohydrate.
- 20. Skim milk is a low-quality protein source.

- 1. Saturated fatty acids such as stearic acid provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.

- 2. Sterols provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 3. Soy protein provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 4. Vitamin D provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 5. If you are a slice of white bread containing 15 grams of digestible carbohydrate, 3 grams of protein, and 1 gram of fat, approximately how many total Calories would this provide?
 - A. 20 Calories
 - B. 40 Calories
 - C. 60 Calories
 - D. 80 Calories
 - E. 100 Calories
- 6. Which answer best describes the function of lecithin?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Preferred and fastest energy source
 - D. Component of cell membrane structure
 - E. Synthesis of sex hormones
- 7. Which answer best describes the function of monosaccharides?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Converted to adenosine triphosphate energy
 - D. Enzyme cofactor
 - E. Building blocks for vitamins
- 8. Which answer best describes the function of fatty acids?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Energy storage and source
 - D. Enzyme cofactor
 - E. Synthesis of sex hormones
- 9. Which of the following answers includes characteristics of a sound diet?
 - A. A plant-based diet
 - B. A diet rich in animal foods
 - C. A diet with Calorie control and moderation
 - D. A diet providing more than adequate amounts of nutrients
 - E. All of the above

10.	A trace mineral is found in amounts less than or equal to in the adult reference body. A. 1 milligram B. 5 Kilograms C. 5 grams D. 7 grams E. None of the above
11.	Galactose is categorized as a while lactose is categorized as a A. monosaccharide; disaccharide B. fatty acid; triglyceride C. nonessential amino acid; complex protein D. simple sugar; fiber E. digestible carbohydrate; essential fatty acid
12.	What is the unique element in non-essential amino acids not found in fatty acids? A. Nitrogen B. Oxygen C. Carbon D. Cobalt E. Hydrogen
13.	Which of the following are essential fatty acids? A. Oleic acid and stearic acid B. Linoleic acid and alpha-linolenic acid C. Glutamic acid and acetic acid D. Trypthphan and glutamine E. Cysteine and methionine
14.	Monounsaturated fatty acids are found the most abundantly in: A. sunflower oil. B. coconut oil. C. lard. D. almonds. E. chicken fat.
15.	Which of the following is a trace mineral? A. Potassium B. Sulfur C. Magnesium D. Iron E. Phosphorus
16.	Which of the following answers contains only major minerals? A. Thiamin, pantothenic acid, and calcium B. Folate, biotin, and molybdenum C. Zinc, iron, and selenium D. Potassium, calcium, and sulfur E. Chloride, sodium, and zinc

- 17. What does it mean for a vitamin to be termed water soluble?
 - A. The vitamin is chemically composed of hydrogen and oxygen.
 - B. The vitamin provides water for the body.
 - C. The vitamin is concentrated in drinking water.
 - D. The vitamin is synthesized in the body from water.
 - E. The vitamin dissolves in water.

- 18. Which of the following is an essential nutrient?
 - A. Galactose
 - B. Thiamin
 - C. Cholesterol
 - D. Silicone
 - E. Oleic acid
- 19. Which of the following is also known as blood sugar?
 - A. Sorbitol
 - B. Sucrose
 - C. Lactose
 - D. Maltose
 - E. Glucose
- 20. What is the physiological need for food?
 - A. Hunger
 - B. Appetite
 - C. Satiety
 - D. Homeostasis
 - E. Dehydration
- 21. Which food below provides a source of both protein and carbohydrate?
 - A. Egg
 - B. Chicken
 - C. Olive oil
 - D. Broccoli
 - E. Orange
- 22. The essential fatty acids are:
 - A. solid at room temperature.
 - B. omega-3 fatty acids.
 - C. found in dairy products.
 - D. found in plant oils.
 - E. monounsaturated.
- 23. Alcohol is:
 - A. a central nervous system stimulant.
 - B. a good source of essential nutrients.
 - C. the most energy-dense dietary substance.
 - D. an inorganic compound.
 - E. a drug.
- 24. Which of the following statements is false regarding adenosine triphosphate?
 - A. It is made by energy transfer.
 - B. It is the ultimate form of energy.
 - C. It is potential energy for the human body.
 - D. It allows the human body to do work.
 - E. It can be generated by breaking down vitamins.
- 25. Which statement most closely defines a Calorie?
 - A. A unit used to measure nutrient density in food
 - B. Found in organic and inorganic material
 - C. The energy potential of food
 - D. A macronutrient
 - E. Another term for dietary fat

- 26. Which of the following is false about dietary fiber?
 - A. It is found in animal foods.
 - B. It provides 0 Calories per gram.
 - C. It is a complex carbohydrate.
 - D. It contains beta-linked glucose units.
 - E. There is a recommend intake level for it.
- 27. Which statement most closely defines diet?
 - A. A route to achieving health
 - B. A low carbohydrate intake program
 - C. Nutritional adequacy in food composition
 - D. The kind and amount of food eaten each day
 - E. A weight-loss or weight-gain program
- 28. Starch contains glucose units linked together by:
 - A. alpha bonds.
 - B. beta bonds.
 - C. chi bonds.
 - D. delta bonds.
 - E. gamma bonds.
- 29. Which substance below is the most calorically dense?
 - A. Starch
 - B. Fiber
 - C. Protein
 - D. Sterols
 - E. Triglycerides
- 30. Which of the following is a function of minerals?
 - A. Regulate fluid balance
 - B. Provide Calories
 - C. Support weight loss
 - D. Promote excretion
 - E. Maintain cell membrane bilayers

Ready-to-Print Module 1 Exam D

True/False

- 1. The term *health* applies to the physical health of a person only.
- 2. Dietary fat is the preferred fuel source for the human body.
- 3. Organic compounds contain several elements chemically bound together, including the element carbon.
- 4. Malnutrition includes overnutrition and undernutrition.
- 5. One twelve-ounce can of regular cola soda contains 40 grams of sugars. This would supply 120 Calories.
- 6. Incomplete proteins are found in animal food sources.
- 7. Triglycerides, phospholipids, and sterols are calorically dense.
- 8. Saturated fatty acids chemically contain one or more double bonds between their carbon molecules.
- 9. Essential minerals are elements naturally found in earth.
- 10. Vegetables provide an exogenous source of cholesterol.
- 11. Cholesterol can be used by the body to synthesize vitamin D.
- 12. Water-soluble vitamins are organic compounds.
- 13. Combining wheat-containing cereal with soy milk is an example of protein complementation.
- 14. Cholesterol in the diet is essential.
- 15. Drinking fluid promotes the excretion of toxic metabolic waste products from the body.
- 16. The absence of an essential nutrient in the body leads to deficiency signs and symptoms.
- 17. Cells have the capacity for metabolism.
- 18. Exercise promotes healthy bone structure.
- 19. Plant food sources contain carbohydrate.
- 20. Milk is a source of high-quality protein.

- 1. Amylose provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.

- 2. Amino acids provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 3. Salt provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 4. Cholesterol provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 5. Water provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 6. Which answer best describes the function of protein?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Preferred and fastest energy source
 - D. Enzyme cofactor
 - E. Synthesis of sex hormones
- 7. Which answer best describes the function of vitamins?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Preferred and fastest energy source
 - D. Enzyme cofactor
 - E. Synthesis of sex hormones
- 8. Which answer best describes the function of sterols?
 - A. Tissue repair
 - B. Medium for metabolism
 - C. Preferred and fastest energy source
 - D. Enzyme cofactor
 - E. Synthesis of sex hormones
- 9. Which of the following answers includes characteristics of a sound diet?
 - A. Low carbohydrate, high protein
 - B. Calorie control, low fat
 - C. Balance and variety
 - D. More than adequate
 - E. All of the above

10.	A major mineral is found in amounts greater than in the adult reference body. A. 1 gram B. 500 milligrams C. 5 grams D. 7 grams E. 2.5 grams
11.	Protein is categorized as while amino acids are categorized as A. high quality or low quality; essential or nonessential B. essential or nonessential; high quality or low quality C. soluble or insoluble; simple or complex D. simple or complex; sterols or nonsterols E. heavy or light, small or large
12.	What is the unique element in protein not found in starch? A. Nitrogen B. Oxygen C. Carbon D. Cobalt E. Hydrogen
13.	Which of the following answers includes only monosaccharides? A. Lactose and galactose B. Fructose and glucose C. Glucose and sucrose D. Lactose and maltose E. Cysteine and methionine
14.	Monounsaturated fatty acids are found abundantly in: A. sunflower oil. B. coconut oil. C. lard. D. olive oil. E. chicken fat.
15.	Which of the following is NOT a major mineral? A. Sodium B. Sulfur C. Chloride D. Iron E. Calcium
16.	Which of the following is a disaccharide? A. Galactose B. Glutamine C. Manganese D. Maltose E. Adenosine triphosphate
17.	Which of the following answers contains only trace minerals? A. Niacin, pantothenic acid, and calcium

B. Folate, biotin, molybdenum, and IronC. Zinc, iron, iodine, and seleniumD. Potassium, calcium, sulfur, and zinc

E. Chloride, sodium, magnesium, and manganese

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- 18. What does it mean for a vitamin to be termed fat soluble?
 - A. The vitamin provides 9 Calories per gram.
 - B. The vitamin provides insulation for the body.
 - C. The vitamin dissolves in fat.
 - D. The vitamin is synthesized in the body from fat.
 - E. None of the above
- 19. What is the psychological desire for food?
 - A. Hunger
 - B. Appetite
 - C. Satiety
 - D. Homeostasis
 - E. Dehydration
- 20. Which of the following is also known as milk sugar?
 - A. Sorbitol
 - B. Sucrose
 - C. Lactose
 - D. Maltose
 - E. Glucose
- 21. The essential fatty acids are:
 - A. monounsaturated.
 - B. carriers of the trace mineral cobalt.
 - C. found in the highest levels in plant oils.
 - D. found in the highest levels in animal meat.
 - E. solid at room temperature.
- 22. Which food below provides the best source of cholesterol and phospholipids?
 - A. Egg
 - B. Steak
 - C. Crisco
 - D. Soybeans
 - E. Potato
- 23. Alcohol is:
 - A. a stimulant.
 - B. a depressant.
 - C. a non-caloric substance.
 - D. a micronutrient.
 - E. nutrient dense.
- 24. Fiber contains glucose units linked together by:
 - A. alpha bonds.
 - B. beta bonds.
 - C. chi bonds.
 - D. delta bonds.
 - E. gamma bonds.
- 25. The number of essential fatty acids in adult human nutrition is:
 - A. 11.
 - B. 9.
 - C. 7.
 - D. 2.
 - E. 0.

- 26. Which of the following is a function of minerals?
 - A. Provide energy
 - B. Regulate pH balance
 - C. Promote weight loss
 - D. Medium for neurological signals
 - E. Maintain cell membrane integrity
- 27. Which of the following statements is false regarding adenosine triphosphate?
 - A. It is formed from fat-soluble vitamins.
 - B. It is produced from glucose, amino acids, and fatty acids.
 - C. It is chemical compound used for energy.
 - D. It enables the human body to do work.
 - E. It is created by energy transfer.
- 28. A Calorie is:
 - A. a unit used to measure energy.
 - B. measured in food using a bomb calorimeter.
 - C. the amount of heat energy needed to raise 1 kilogram of water 1 degree Celsius.
 - D. All the above
 - E. None of the above
- 29. Which of the following is true about dietary fiber?
 - A. It is found in plant and animal foods.
 - B. It provides 4 Calories per gram.
 - C. It is a simple carbohydrate.
 - D. It is used for tissue repair and maintenance.
 - E. There is a recommend intake (DRI) level for it.
- 30. Diet is defined as:
 - A. a weight-loss program.
 - B. a high-protein, low-carbohydrate food intake program.
 - C. the kind and amount of food eaten each day.
 - D. variety, moderation, and balance in food composition.
 - E. a route to malnutrition.

Ready-to-Print Module 1 Practice Exam

True/False

- 1. There are numerous different cell types in the human body.
- 2. Vegetables provide a source of incomplete, low-quality protein.
- 3. Sterols are calorically dense.
- 4. Oleic acid is an essential fatty acid.
- 5. Starch provides 4 Calories per gram.
- 6. Calcium is an organic element.
- 7. Some minerals function in acid-base balance in the body.
- 8. Plant foods are an exogenous source of cholesterol.
- 9. Every amino acid contains nitrogen.
- 10. Eating a peanut butter sandwich qualifies as protein complementation.
- 11. Protein provided from plant foods is considered to have low biological value.
- 12. Cholesterol can be used by the body to produce vitamin D.
- 13. Minerals are organic compounds.
- 14. Sodium is a major mineral.
- 15. Adenosine triphosphate is produced in the mitochondria of cells.
- 16. Some fatty acids are essential.
- 17. Water provides the medium for metabolism.
- 18. Nutrient density refers to the amount of vitamins in relation to minerals.
- 19. Moderation means that the diet is not deficient in an essential nutrient.
- 20. Alcohol is chemically closely related to sterols.

- 1. Maltose provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.

- 2. Fiber provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 3. Fatty acids provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 4. Plant protein provides:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 5. Major minerals provide:
 - A. 0 Calories per gram.
 - B. 2 Calories per gram.
 - C. 4 Calories per gram.
 - D. 7 Calories per gram.
 - E. 9 Calories per gram.
- 6. Which of the following is a function of minerals?
 - A. Provide 4 Calories per gram
 - B. Regulate fluid balance
 - C. Speed up metabolism
 - D. Are converted to stored fat when in excess
 - E. Make up cell membranes
- 7. Which of the following statements is true about cholesterol?
 - A. It is an essential nutrient.
 - B. It can be synthesized (made) inside the body.
 - C. It provides 9 Calories per gram.
 - D. It functions as an enzyme cofactor in metabolism.
 - E. All of the above are true.
- 8. Which of the following answers includes only vitamins?
 - A. Thiamin, iron, glucose
 - B. Folate, iodine, chromium
 - C. Pantothenic acid, biotin, vitamin C
 - D. Calcium, cholesterol, cobalt
 - E. Phosphorus, sulfur, fructose
- 9. Which of the following dietary substances may function as an enzyme cofactor?
 - A. Sugars
 - B. Fiber
 - C. Amino acids
 - D. Vitamins
 - E. Water

10.	The	human body prefers to burn	for energy.
	A.	Carbohydrates	
	B.	Proteins	
	C.	Phospholipids	

- D. SterolsE. Water
- E. water
- 11. How are minerals categorized?
 - A. Fat or water soluble
 - B. Major and trace
 - C. Organic and inorganic
 - D. Essential and nonessential
 - E. Blood or bone
- 12. Which of the following foods is predominately a source of polyunsaturated fatty acids?
 - A. Animal fat
 - B. Soybean oil
 - C. Butter
 - D. Olive oil
 - E. Coconut oil
- 13. Phospholipids are used to make:
 - A. Proteins
 - B. Fat
 - C. Cell membranes
 - D. Bone
 - E. ATP
- 14. What does it mean for an essential mineral to be labeled as "trace"?
 - A. The total quantity of the mineral in the adult reference male body is less than or equal to 1 gram.
 - B. The total quantity of the mineral in the adult reference male body is less than or equal to 2 grams.
 - C. The total quantity of the mineral in the adult reference male body is less than or equal to 3 grams.
 - D. The total quantity of the mineral in the adult reference male body is less than or equal to 4 grams.E. The total quantity of the mineral in the adult reference male body is less than or equal to 5 grams.
- 15. Characteristics of a sound diet include:
 - A. low carbohydrate and high protein.
 - B. Calorie control and nutritional adequacy.
 - C. moderation, balance, and variety.
 - D. A and C
 - E. B and C
- 16. Macronutrients include:
 - A. water, protein, and minerals.
 - B. fat, carbohydrate, and vitamins.
 - C. protein, fat, and carbohydrate.
 - D. carbohydrate, minerals, and protein.
- 17. Four calories per gram are provided by:
 - A. fat and cholesterol.
 - B. carbohydrates and alcohol.
 - C. protein and fat-soluble vitamins.
 - D. carbohydrates and protein.
- 18. *Organic* means that the substance is:
 - A. carbon containing.

- B. wholesome.
- C. steroid free.
- D. pesticide free.
- 19. Organic compounds include:
 - A. water and fat.
 - B. phospholipids and protein.
 - C. cholesterol and minerals.
 - D. carbohydrates and calcium.
- 20. The categories of carbohydrate are:
 - A. high quality and low quality.
 - B. essential and nonessential.
 - C. soluble and insoluble.
 - D. simple and complex.
- 21. Monosaccharides include:
 - A. lactose and maltose.
 - B. fructose and galactose.
 - C. glucose and sucrose.
 - D. glucose and maltose.
- 22. Which fatty acids have no double bonds?
 - A. Saturated fatty acids
 - B. Monounsaturated fatty acids
 - C. Polyunsaturated fatty acids
 - D. Trans fatty acids
- 23. A good food source of monounsaturated fatty acids is:
 - A. safflower oil.
 - B. palm oil.
 - C. peanut oil.
 - D. canola oil.
- 24. Which of the following scenarios could lead to "malnutrition"?
 - A. A person is taking single-nutrient supplements every day at a level well above the tolerable upper intake level (UL).
 - B. A person is chronically under-consuming total Calories in their diet.
 - C. A person is chronically over-consuming total Calories in their diet.
 - D. B and C
 - E. A, B, and C.
- 25. Which of the following foods would have the most nutrient density?
 - A. Ice cream
 - B. French fries
 - C. Yogurt
 - D. Water
- 26. Which of the following factors could affect food choice?
 - A. Knowledge
 - B. Availability
 - C. Social factors
 - D. Economics
 - E. All of the above
- 27. A simple carbohydrate source would be:

58 ~ Module 1 Test Bank

- A. bread.
- B. rice.
- C. pasta.
- D. fruit.
- E. legumes.
- 28. Which nutrient would add the best satiety value to a meal?
 - A. Fat
 - B. Protein
 - C. Carbohydrate
 - D. Vitamins
 - E. Minerals
- 29. Choose one of the following answers that includes only the trace minerals.
 - A. Calcium, iron, and copper
 - B. Iron, zinc, and iodine
 - C. Magnesium, cobalt, and selenium
 - D. Phosphorus, fluoride, and chromium
 - E. Fluoride, cobalt, and sulfur
- 30. How much water intake is needed to stay in water balance?
 - A. 0.5 milliliters per Calorie expended
 - B. 1.0 milliliters per Calorie expended
 - C. 1.5 milliliters per Calorie expended
 - D. 2.0 milliliters per Calorie expended