

科目：語文能力-專業英文

系所組：食品科學系

26. Food science and technology definitions do not include
- A. processing.
 - B. formulation.
 - C. nutrition.
 - D. preservation.
27. *Salmonella* Enteritidis can be found in undercooked or raw
- A. Fruit.
 - B. Seafood.
 - C. Eggs.
 - D. Beef.
28. Which is an application of food science and technology to milk?
- A. pasteurization
 - B. sugar:acid ratio
 - C. gelation
 - D. browning reaction
29. *Vibrio* is found in
- A. Eggs,
 - B. Corn.
 - C. Beef.
 - D. Seafood.
30. The key feature with respect to the preservative effect of canning
- A. is removal of air from the container.
 - B. is the vital components of foods.
 - C. is the application of heat.
 - D. is corking to seal a glass container.
31. Amylase is
- A. A carbohydrate.
 - B. An enzyme.
 - C. A polyol.
 - D. A yeast.

※ 注意：1. 考生須在「彌封答案卷」上作答。

2. 本試題紙空白部份可當稿紙使用。

3. 考生於作答時可否使用計算機、法典、字典或其他資料或工具，以簡章之規定為準。

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32. Cysteine and methionine are _____ found in human milk.
- A. fatty acids
 - B. whey and casein proteins
 - C. vitamins and minerals
 - D. amino acids
33. Psychrotrophs prefer
- A. Freezing temperatures.
 - B. High temperatures.
 - C. Temperate environments.
 - D. Low temperatures.
34. A 30% sucrose-in-water solution is equivalent to _____ Brix on a weight/weight basis.
- A. 50°
 - B. 30°
 - C. 30 percent
 - D. 30 parts
35. Aerobes require
- A. oxidized conditions.
 - B. reduced conditions.
 - C. a little oxygen.
 - D. no oxygen.
36. One glass of plain, low fat yogurt contains less protein and calcium than one glass of whole milk.
- A. true
 - B. false
37. Most microorganisms utilize
- A. inorganic matter.
 - B. organic matter.
 - C. metabolic entities.
 - D. parasites.

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38. All of the following are complex carbohydrates except:
- A. starches
 - B. sugars
 - C. fiber
 - D. cellulose
39. All of the following have to do with the potential for developing fat and oil rancidity or oxidation, except
- A. iodine value.
 - B. peroxide value.
 - C. acid value.
 - D. smoke point.
40. Which statement regarding lipids is true?
- A. Triglycerides are composed of one fatty acid and three glycerols.
 - B. Lipids are insoluble, hydrophilic compounds.
 - C. Most food lipids are triglycerides.
 - D. Lipids are polar molecules.
41. Homogenization and pasteurization decrease the size of the fat globules present in milk.
- A. true
 - B. false
42. The body synthesizes all of the following amino acids in sufficient quantities except
- A. alanine.
 - B. cysteine.
 - C. methionine.
 - D. glutamic acid.
43. Which additives act as preservatives?
- A. antimicrobials
 - B. colorants
 - C. dough strengtheners
 - D. humectants

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44. Examine the following list and select the trace mineral.

- A. sulfur
- B. phosphorus
- C. calcium
- D. iron

45. Of the following, which is the sweetest sugar?

- A. lactose
- B. glucose
- C. sucrose
- D. galactose

46. Through enzymatic hydrolysis,

- A. small molecules are combined to form polymers.
- B. lactase breaks lactose apart into glucose and galactose.
- C. hydrolysis occurs without the need of a catalyst.
- D. microorganisms are fermented.

47. Sucrose differs from maltose and lactose

- A. by containing fructose.
- B. by being a disaccharide.
- C. by being a monosaccharide.
- D. by being less sweet.

48. _____ acid, found in apples, contains two COOH groups, and is represented by the formula $C_4H_6O_5$.

- A. Tartaric
- B. Lactic
- C. Malic
- D. Citric

49. Sugars are considered as organic *alcohols* because

- A. they contain the C=O group.
- B. they are polar molecules.
- C. they contain the OH group.
- D. they dissolve in alcohol.

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50. Which food is *not* properly classified as a gel?

A. marshmallow

B. tofu

C. gelatin gel

D. egg white gel

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