## (108)輔仁大學碩士班招生考試試題

考試日期:108年3月 08日第 / 節

頁)

本試題共 千 頁 (本頁為第

科目:語文能力 系所組: 營養科學系

26. The leading cause of blindness in the world today (not counting accidents) is a dietary deficiency of

- A. vitamin A
- B. vitamin D
- C. vitamin E
- D. vitamin K
- E. both a and c

27. Low density lipoproteins (LDL) are the principal transport vehicle for \_\_\_\_\_ in the blood.

- A. cholesterol
- B. phospholipids
- C. glucose
- D. triglycerides
- E. free fatty acids

28. Thiamin, niacin, and riboflavin work together in important biochemical pathways that

- A. release energy from carbohydrate, fat, and protein
- B. control visual process
- C. synthesize collagen
- D. promote absorption of calcium

29. All B vitamins function as

- A. sources of energy
- B. coenzymes
- C. cofactors
- D. enzymes

30. Scurvy is due to a deficiency of

- A. vitamin C
- B. thiamin
- C. folate
- D. vitamin B-12
- E. both a and d

31. Osteoporosis

A. is caused by a dietary lack of vitamin D

B. indicates the person has been taking certain medications that interfere with normal bone metabolism

C. is a general term for a disease that results in reduced bone mass

- D. is another name for osteomalacia
- E. is caused by bone tumors

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
32. One consequence of insufficient intake of dietary carbohydrate is a condition called	
ketosis. Ketosis may result from	
A. starvation	
B. a diet of less than 50 grams of carbohydrate per day	
C. untreated diabetes mellitus	
D. dehydration	
E. a, b, and c	
33. A diet high in fat, low in dietary fiber, and excess food energy may be an important contributing factor in the development of	
A. phytobezoars	
B. dental caries	
C. lactose intolerance	
D. colon cancer	
34. The RDA's are based on	
A average requirements for a population	
D. progise numbers derived from carefully controlled experiments	
C. average needs, plus increased amounts sufficient to meet requirements for nearly all	
variability in the population	
D. the fact that every nutrient must be consumed every day	١
35. As blood glucose levels increase, is released by the pancreas to allow fat (adipose)	
and muscle cells to take up the extra sugar.	
A. cholecystokinin	
B. cortisol	
C. glucagon	
D. insulin	
E. epinephrine	
36. By reducing Fe+3 to Fe+2, nonheme iron is better absorbed. Which nutrient is associated with reducing iron?	
A. Phosphorus	
B. Calcium	
C: Vitamin A	
D. Vitamin C	
E. Pyruvic acid	
37. The human brain and other nerve tissue use mostly as fuel.	
A. galactose	
B. glycogen	
C. fructose	
D. glucose	
The Contaminated with aflatoxins are	
38. The foods most often contaminated with aflatoxins are	
A. cheeses made from unpasteurized milk B. meats from wild animals such as bear and deer	
C. fish and shellfish	
D. wheat, corn, peanuts and tree nuts $\rho_{c,2}$	

39. Which of the following components of a meal is last to exit the stomach? A. carbohydrates B. proteins C. alcohol D. fats 40. After a period of prolonged fasting (starving), nerve tissue changes it fuel requirements A. and glycogen becomes the primary source of energy B. so that glycerol becomes the primary source of energy C. and uses amino acids directly D. so that ketone bodies replace glucose 41 Bulimia A. means episodes of eating binges, followed by attempts to purge food from the body B. is difficult to identify since most bulimics try to keep their symptoms secret C. unlike anorexia nervosa, is not a problem for men D. and anorexia nervosa have symptoms that overlap E. a, b, and d 42. Cross-contamination of foods occurs A. when perishable foods are kept at room temperature up to two hours B. when two or more food handlers are working with the same food C. when two or more different microorganisms are growing in the same food D. when a utensil contaminated with a microorganism from a previously handled food is allowed to come in contact with a second food and contaminates it 43. A clinical symptom of iron-deficiency anemia is A. intolerance to cold temperatures B. apathy C. pale skin D. fatigue E. all of the above 44. The pellagra epidemic of the early part of this century confined many victims to A: mental institutions B. to wheelchairs, they lost their ability to walk C. wearing wigs as most lost their hair D. wearing dentures, most lost all their teeth 45. Beta carotene is also called A. chlorophyll B. retinoic acid, retinal or retinal C. calcitriol D. provitamin A 46. The maintenance of mucus forming cells depends of adequate amounts of A. vitamin K B. vitamin C C. vitamin A D. vitamin D

R3

- 47. Spinach has a very high iron content, but low bioavailability. The iron in spinach is in the form of
  - A. elemental iron
  - B. myoglobin
  - C. nonheme iron
  - D. hemoglobin
- 48. Many green, leafy vegetables are high in dietary calcium, but the calcium is unavailable because
  - A. it is absorbed and then reexcreted through the small intestine
  - B. the calcium is complexed to phytic acid so it can't be absorbed
  - C. bile acids carry the calcium out of the body by way of the feces (cont.)
  - D. the calcium is complexed to oxalic acid so it can't be absorbed
- 49. The most bioavailable form of dietary iron is
  - A. heme iron
  - B. nonheme iron
  - C. elemental iron
  - D. both b and c
- 50. A reliable source of dietary iodide is
  - A. iodide-fortified salt
  - B. seed oils
  - C. sea salt
  - D. freshwater fish

## (108)輔仁大學碩士班招生考試試題

考試日期:108年3月8日第 ≥ 節

本試題共 ( 頁 (本頁為第 ( 頁)

科目:

營養學綜論

系所組:

營養科學系

- 1. 請論述膳食纖維的種類,食物來源及其保健功能性。(15%)
- 2. 請說明攝取葵花子油(sunflower oil)後的消化、吸收、血液運輸及脂肪細胞油脂能量代謝機轉。(15%)
- 3. 請說明以下評估食物蛋白質品質的指標: (10%)
  - (a) Protein efficiency ratio
  - (b) Biological value
  - (c) Chemical score
  - (d) Limiting amino acids
  - (e) Complementary protein
- 4. 請說明那些微量營養素缺乏會導致小球性貧血與其生化代謝作用。(10%)
- 5. 請解釋並說明下列營養相關的生化檢驗意義和可能的疾病診斷項目(15%) (1)lactate dehydrogenase (2)creatine kinase (3)oral glucose tolerance test
- 6. 病人的臨床病歷內容繁多,做營養評估時,那些病史或治療可能會影響營養 狀態、也和營養評估有關?試列舉五項(15%)
- 7. 試解釋 serum albumin 在營養不良中扮演的生理角色和相關疾病?其在體內水份調節上所扮演的角色為何?其造成水腫的原因為何?(20%)

※ 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。