

系級	科目	授課教師	考試日期	學號	姓名
護一	普通化學	林淑貞	90年6月14日第3-4節		

※①請注意本試題共 6 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。  
 ②每張試題卷務必填寫(學號)、(姓名)。

1. An analgesic is a substance that reduces or eliminates:
  - a. fever
  - b. pain
  - c. sleeplessness
  - d. swelling
  - e. water retention
2. Heroin is formed through the reaction of morphine with:
  - a. acetic acid
  - b. acetic anhydride
  - c. acetone
  - d. ethyl acetate
  - e. ethyl alcohol
3. The acetylation of morphine produces:
  - a. acetylsalicylic acid
  - b. cocaine
  - c. codeine
  - d. heroin
  - e. tetrahydrocannabinol
4. In addition to carbon and hydrogen, all alkaloids contain the element:
  - a. bromine
  - b. nitrogen
  - c. oxygen
  - d. phosphorus
  - e. sulfur
5. The active ingredient of marijuana is:
  - a. atropine
  - b. lysergic acid diethylamide
  - c. morphine
  - d. reserpine
  - e. tetrahydrocannabinol
6. The chemical name for aspirin is
  - a. acetylsalicylic acid
  - b. acetaminophen
  - c. amphetamine
  - d. acetic acid
7. Histamine is a neurotransmitter that causes
  - a. pain
  - b. depression
  - c. upset stomach
  - d. allergic reaction
8. An endorphin acts as a(n):
  - a. analgesic
  - b. antioxidant
  - c. carcinogen
  - d. nutrient
  - e. opiate antagonist

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9. Which represents the highest cancer incidence in females?
- skin
  - ovary
  - breast
  - uterus
10. Prostaglandins are best described as:
- a class of endorphins
  - plant extracts used in the manufacture of illicit drugs
  - narcotics available as prescription drugs
  - bodily chemicals that play roles in fever, inflammation and the sensation of pain
  - a class of compounds used as poisons in the Middle Ages
11. Aspirin's effects come from its ability to inhibit the formation of:
- cholinesterase
  - nitrosamines
  - prostaglandins
  - testosterone
  - triglycerides
12. The element phosphorus is found largely in:
- the intestinal walls
  - stomach fluids
  - the eyes
  - nails and hair
  - bones
13. Osteoporosis is associated with a deficiency of:
- an essential amino acid
  - ascorbic acid
  - lactase
  - a triglyceride
  - calcium
14. The dominant cation in extracellular body fluids is:
- H<sup>+</sup>
  - Ca<sup>2+</sup>
  - Na<sup>+</sup>
  - K<sup>+</sup>
  - Li<sup>+</sup>
15. The dominant cation in the fluids within body cells is:
- H<sup>+</sup>
  - Ca<sup>2+</sup>
  - Na<sup>+</sup>
  - K<sup>+</sup>
  - Li<sup>+</sup>
16. Dietary β-carotene supplies humans with:
- ascorbic acid
  - phenylalanine
  - phosphorus
  - retinol
  - vitamin D

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17. The food additive associated with the "Chinese restaurant syndrome" is:
  - a. aspartame
  - b. calcium propionate
  - c. monosodium glutamate
  - d. mono- and diglycerides
  - e. sodium nitrite
  
18. A chemical used to inhibit the growth of microorganisms in acidic foods is:
  - a. calcium propionate
  - b. calcium silicate
  - c. EDTA
  - d. MSG
  - e. sodium benzoate
  
19. A chemical that is not an antioxidant itself, but is used to inhibit the oxidation of foods is:
  - a. ascorbic acid
  - b. calcium propionate
  - c. EDTA
  - d. NaCl
  - e.  $\text{NaNO}_2$
  
20. Nitrites in food present a possible hazard of cancer because of the probable formation of:
  - a. toxic carbohydrates
  - b. N-nitrosamines
  - c. poisonous oxides of nitrogen
  - d. short chain carboxylic acids
  - e. cholesterol
  
21. The principal benefit gained by the addition of nitrites to processed meat is protection against the:
  - a. growth of *Clostridium botulinum*
  - b. oxidation of triglycerides
  - c. degradation of meat protein
  - d. formation of toxic carbohydrates
  - e. formation of unacceptable odors and tastes in the meat
  
22. The body's major fuel molecule is
  - a. sucrose
  - b. triglycerides
  - c. glucose
  - d. amino acids
  
23. Which is "good" cholesterol and its function?
  - a. LDL, transports cholesterol to arteries
  - b. HDL, transports cholesterol to arteries
  - c. LDL, transports cholesterol to liver for excretion
  - d. HDL, transports cholesterol to liver for excretion
  
24. Which vitamin is produced when ultraviolet light shines on the skin?
  - a. A
  - b. C
  - c. D
  - d. B

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25. Aspirin interferes either directly or indirectly with
- prostaglandins
  - dopamine
  - steroids
  - norepinephrine
26. The vitamin also known as ascorbic acid is
- B
  - D
  - E
  - C
27. Vitamin K
- regulates blood clotting
  - protects cell membranes from oxidation
  - helps body use calcium
  - prevents rickets
28. What do antioxidants react with in foods?
- water
  - microorganisms
  - free radicals
  - colors that cause cancer
29. Which substance would be used to treat an extreme allergic reaction (an anaphylactic shock)?
- L-dopa
  - antihistamine
  - serotonin
  - epinephrine
30. The basal metabolic rate (BMR) is
- how fast you can metabolize an ounce of sugar
  - your basic requirement of energy for maintaining an inactive life
  - your rate of metabolizing basal herb
  - about 5000 kcal per hour for most adults
31. To determine your personal BMR (in kcal per hour), multiply your
- age by 10
  - weight by 10
  - age by your weight by 10
  - age by 20
32. Bran, fruit pulp, and whole grains
- provide bulk to move toxins out of the intestines
  - are a complete diet recommended for fast weight reduction
  - have nothing in common
  - contain protein and fat only

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33. Why may a calcium deficiency occur in some women after menopause?
- they drink less milk
  - there is less estrogen, resulting in bone dissolution and deterioration
  - they have less calmodulin
  - the pancreas ceases to function
34. How does an antioxidant such as BHT work in foods?
- it kills bacteria
  - it donates a hydrogen atom to free radicals
  - it surrounds metal ions and deactivates them
  - it reacts with oxygen and thus prevents oxygen from reacting with fats
35. The "fight or flight" hormone is
- noepinephrine
  - estrogen
  - epinephrine
  - testosterone
36. Beta blockers are used for what disease or condition?
- heart disease
  - treatment of cancer
  - depression
  - morphine
37. Which substance accounts for most of the symptoms of hay fever?
- histamine
  - the IgE antibody
  - acetylcholine
  - antihistamines
38. The two primary causes of heart disease are
- alcoholism and smoking
  - smoking and high sodium intake
  - hypertension and atherosclerosis
  - obesity and alcoholism
39. In the age group 25-44 years old, the leading cause of death is
- HIV infection
  - accidents
  - heart disease
  - cancer
40. Which substance occurs naturally?
- codeine
  - heroin
  - morphine
  - Demorol

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41. Sulfa drugs work
  - a. by interfering with cell wall development
  - b. preventing ovulation
  - c. shutting down production of folic acid
  - d. inhibiting protein synthesis
42. AZT fools the HIV virus by becoming part of its
  - a. cell wall
  - b. DNA
  - c. RNA
  - d. retrovirus
43. Substances which are involved in temperature and blood pressure regulation, pain perception, and mood belong to a class known as
  - a. steroids
  - b. neurotransmitters
  - c. analgesics
  - d. tetracyclines
44. Hypertension is treated with
  - a. beta blockers
  - b. vasodilators
  - c. diuretics
  - d. cholesterol-lowering drugs
45. Citric acid is a sequestrant in foods. As a sequestrant its principal function is to
  - a. neutralize bases
  - b. complex oxygen
  - c. keep foods moist
  - d. tie up metal ions and prevent their catalytic effects

Answers:

1	6	11	16	21	26	31	36	41		
2	7	12	17	22	27	32	37	42		
3	8	13	18	23	28	33	38	43		
4	9	14	19	24	29	34	39	44		
5	10	15	20	25	30	35	40	45		