

# آزمون کارشناسی ارشد وزارت بهداشت سال ۱۳۹۳

فایل سوالات

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**Part One:  
Reading Comprehension**

**Directions**

Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c & d) below each one. Base your answers on the information given only.

**Passage One**

It was back in 1959 when the first tele-psychiatry system was set in operation through a two-way closed circuit microwave television to transmit demonstration of neurologic patients from the State Mental Hospital to Nebraska Psychiatric Institute, 112 miles away in Omaha as part of the education of first year medical students.

Although tele-psychiatry has a long history, its practical consequences in every day mental health care practice have been limited. Development, construction, operation and maintenance costs have been prohibitively high and the majority of "online time" was spent on medical education.

Psychiatry is not a specialty that requires touch during examination of the patient. Sessions are mostly in the form of interviews where the interviewer and interviewee have agreed to meet in a predefined location such as a nursing home, a hospital, private clinic or even at the patient's home. Even duration is not predefined. The sessions could last for as long as the involved parties consider it helpful or efficient. Number of involved people is not standardized either. Group therapies have gained momentum especially when participants form a group sharing experiences and seeking guidance for dealing with issues ranging from substance abuse to mourning and providing care to the chronically ill.

**1. The tele-psychiatry experience of 1959 was .....**

- a) first practiced to educate medical students in Nebraska Psychiatric Institute
- b) approved for treating patients in Nebraska Psychiatric Institute
- c) successful in microwave transmission to the Nebraska Mental Hospital
- d) appropriate to educate medical students at the Slate Mental Hospital

**2. The writer's purpose for writing this passage was to**

- a) advocate tele-psychiatry
- b) present the challenges of tele-psychiatry
- c) compare tele-psychiatry with conventional sessions
- d) describe a tele-psychiatry session

**3. Those who attend a group therapy .....**

- a) often suffer emotional problems
- b) are experts in online demonstrations
- c) are acutely ill and responsive to therapy
- d) have the same experience in interview

**4. It is implied in this passage that .....**

- a) close communication between members of a group can be ignored
- b) tele-psychiatry has failed to be a common practice
- c) sharing the same experience and seeking help in the group is important
- d) group therapy requires a standard number of participants

**5. It is stated that a psychiatry session is expected to provide .....**

- a) a limited time duration
- b) an undefined location
- c) physical examination
- d) guidance for participants

**Passage Two**

On the subject of physical health and medical research, there are thousands of amazing Websites on the World Wide Web where people can get information. However, when docs the amount of available

information affect its validity and health benefit? The Internet is greatly influencing people's attitudes about their own healthcare; probably, this worldwide cultural trend improves global health. Because computer users can look up almost any topic of interest to them, they become their own researchers. In the busy modern world, doctors don't always take the time to explain illnesses and possible remedies to their patients; they may not give scientific details in words that are easy to understand, either. For this reason, many hopeful people take advantage of Web resources to find the facts they need for good medical decisions. But are the beliefs of "experts" always completely accurate or real? Are they helpful to everyone that needs advice on a specific medical condition? To sell health books or products might the claims that seem the most wonderful even be fraudulent- that is, dishonest or false? Do sick or worried people expect too much when they look for clear, easy answers to difficult health questions or problems on the computer?

**6. The writer implies that people looking up health information on the Internet should .....**

- a) be more cautious
- b) consult a physician first
- c) manipulate it if necessary
- d) trust it if scientific

**7. According to the text, the information given to patients by their physicians .....**

- a) might be inaccurate
- b) is rather inadequate
- c) can misguide them
- d) fails to be up-to-date

**8. The purpose of the author is to .....**

- a) introduce different sources of health information
- b) discuss some relevant health information on the Internet
- c) guide patients on how to seek reliable information
- d) warn patients against false information on the Internet

**9. According to the passage, one reason patients turn to the Internet for health information is that .....**

- a) physicians fail to explain the issue in an easily understandable language
- b) the information on the Internet is more comprehensive and reliable
- c) health providers are not competent enough to answer the patients' questions
- d) patients are not usually willing to consult their physicians

**10. This passage explains "The Internet" .....**

- a) as a valuable source of health information
- b) in icons of expectations of doctors and patients
- c) in terms of health benefits versus limits
- d) as an unreliable and invalid source of information

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### Passage Three

Regarding databases, it's not all about unauthorized access. Many people fear that the joining of databases will lead to insurance providers barring from coverage people with certain genetic predispositions, or massively increasing their premium. This can be exacerbated by the fact that the mechanism of the genes isn't always well understood, even by the doctors and the medical experts hired by the insurance companies, let alone chief executive officers who just read something in Time magazine about one gene determining whether you get cancer. Moreover, databases often lead to issues of data permanency, particularly bad data. To give an example, my mother came up with a positive on a Hepatitis test a good decade ago. Despite multiple tests showing that the one test was a false positive, she's still on the Do not Donate list for blood. Imagine that, instead, one of the overseas date entry people confused your records for someone with the same name who has a terminal disease. How many times will you get rejected for insurance because the company database shows you have a pre-existing condition?

**11. Databases, if joined, may help insurance providers to overcharge or exclude people .....**

- a) having unauthorized access to data      b) with increased insurance premium  
c) hired by the insurance companies      d) with certain genetic predispositions

**12. The underlined "This" refers to .....**

- a) joining of databases  
b) unauthorized access  
c) barring people from coverage or increasing their premium  
d) people with certain genetic predispositions or their premium

**13. "Data permanency" ..... People seeking medical insurance.**

- a) could disfavor      b) would benefit  
c) is limited to      d) is intended for

**14. The database used by insurance providers could harm insurance seekers by .....**

- a) worsening their terminal disease      b) providing false records of them  
c) donating their blood by mistake      d) transmitting hepatitis to them

**15. The last sentence ..... the way people's insurance data is handled.**

- a) criticizes      b) supports      c) ignores      d) favors

#### Passage Four

Blood vessels throughout the body have the ability to constrict or dilate in circumference. There are nervous system and hormonal interplays that maintain a vascular tone that is appropriate for handling the blood volume in the body and to adapt to changing pumping patterns of the heart. For example, if there is hemorrhage and low volume, the blood vessels constrict to reduce their capacity and increase their resistance to the heart's pumping in order to keep blood flowing at high speed and into even remote, peripheral vascular beds. If they did not have this capacity to constrict, there would be a deceleration of flow and essentially a stagnant circulation, especially in remote areas of the body. Of course, blood that is not flowing is like nonflowing water in a stream; it becomes polluted with waste products and is unable to get rid of them or to replenish itself with fresh supplies. Furthermore, blood that is not moving tends to coagulate or clot, creating an obstruction to further flow.

**16. The nervous system and hormones..... perform their function properly.**

- a) interact in aiding vessels to  
b) remain inactive while vessels  
c) each work individually to guide vessels to  
d) adversely affect the vessels that

**17. Variations in the pumping patterns of the heart .....**

- a) are too small to require monitoring  
b) are adjusted by the vessels  
c) would hardly affect the blood flow  
d) are rooted in the blood vessels

**18. The vessels have a(n) ..... role in handling the blood volume in the body.**

- a) neutral      b) redundant      c) contributory      d) inhibitory

**19. The constriction capacity of blood vessels could help the circulation by .....**

- a) making it stagnant
- b) limiting it to remote areas
- c) accelerating the flow
- d) decelerating the flow

**20. Flowing helps the blood to .....**

- a) coagulate and clot further
- b) develop into a stream of waste products
- c) get rid of its nutrients
- d) be cleansed of waste materials

## Part Two: Vocabulary

### Directions

Complete the following sentences by choosing the best answer.

**21. Regular check-ups and periodic polishing of teeth by the dentist can greatly improve their .....**

- a) shield
- b) structure
- c) longevity
- d) sensitivity

**22. From the beginning of human civilization, it was recognized that polluted water and lack of proper waste..... spread communicable disease.**

- a) disposition
- b) disposal
- c) dismissal
- d) dispersion

**23. A cell genome, that is, the entire library of genetic information in its DNA, provides a genetic program that..... the cell how to function.**

- a) interrupts
- b) inhibits
- c) invades
- d) instructs

**24. Evolution is the process by which living species are gradually modified and ..... the environment in more and more sophisticated ways.**

- a) provided with
- b) surrounded by
- c) adapted to
- d) converted into

**25. Present-day cells have all..... their genetic instruction from the same common ancestor.**

- a) recited
- b) diverted
- c) benefited
- d) inherited

**26. The medical industry has experienced overwhelming advances over the last 50 years, and now even further steps are being taken to help..... patient care.**

- a) optimize
- b) advertise
- c) neutralize
- d) compromise

**27. Quick and timely access to a patient's health history documents would allow a doctor to..... the necessary treatments for a patient.**

- a) contain
- b) avoid
- c) relegate
- d) pursue

**28. Many patients admitted to hospitals tend to suffer serious unintentional injuries, indicating that the hospital environment is..... medical hazards.**

- a) critical of
- b) conducive to
- c) deprived of
- d) safeguarded by

**29. The government has decided to equip health ..... in big cities with modern diagnostic tools such as MR1, CT scan. etc.**

- a) incentives
- b) recommendations
- c) provisions
- d) facilities

**30. The system of higher education..... in different countries around the world, although student life remains rather similar.**

- a) varies                      b) develops                      c) persists                      d) maintains

**31. The rate at which man..... the balance of nature can have destructive outcomes.**

- a) restores                      b) distracts                      c) disturbs                      d) reveals

**32. The researchers postponed doing the project since they doubted the..... of the collected data.**

- a) accuracy                      b) distortion                      c) instruction                      d) intricacy

**33. Hand-washing, use of disposable gloves and disinfectants are the necessary..... to be followed in all health centers.**

- potentials                      b) precautions                      c) competencies                      d) attributes

**34. In case of not following what your doctor has prescribed, your condition may be .....**

- a) elevated                      b) established                      c) augmented                      d) exacerbated

**35. When the balance of hormones in one's body is....., the organs fail to function well.**

- a) restored                      b) established                      c) disrupted                      d) ascertained

**36. Recently, we have been able to develop a highly ..... Computer model to simulate the body's interaction with the kidney implant.**

- a) lethal                      b) trivial                      c) suppressed                      d) sophisticated

**37. The new manager emphasized that prescriptions written by practitioners should be ..... and unambiguous to avoid mistakes.**

- a) legible                      b) predictable                      c) recoverable                      d) accountable

**38. The panel, impressed by the nurses'..... and hard work, decided to promote them.**

- a) accountability                      b) fragility                      c) infirmity                      d) incompatibility

**39. infections are the commonest ..... of mankind and the major source of morbidity and mortality.**

- a) affection                      b) affliction                      c) infusion                      d) affiliation

**40. E-medicine implementation factors require a set of..... such as providing infrastructure; training personnel, health policies, and selection of e-medicine applications.**

- a) ancestors                      b) apparatuses                      c) antecedents                      d) appointments

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

**Part One:  
Reading Comprehension**

**Direction**

Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c & d) below each one. Base your answers on the information given only.

**Passage One**

Hydrofluoric and sulfuric acid are common agents that cause skin injury from acidic solution exposure. The effect an acid has on the skin is determined by the concentration, duration of contact, amount, and penetrability. Hydrofluoric acid is a colorless, fuming liquid that has a highly corrosive effect on skin, causing extensive liquefactive necrosis and severe pain. Deep tissue injury may result, damaging nerves, blood vessels, tendons, and bone. The initial treatment after contact with the skin is copious irrigation, which must be continued for at least 15 to 30 minutes with either water or normal saline. The second aspect of treatment aims to inactivate the free fluoride ion by promoting the formation of an insoluble fluoride salt. Many topical therapies have been advocated and their role in treatment is largely anecdotal. Topical quaternary ammonium compounds are still widely used. Topical calcium carbonate gel has been shown to detoxify the fluoride ion and relieve pain. The treatment involves massage of a 2.5% calcium carbonate gel into the area of exposure for at least 30 minutes. Some investigators advocate continuing this treatment six times per day for 4 days.

**1. The extent to which an acid can affect the skin is related to .....**

- a) topical therapies used
- b) medical treatment adopted
- c) the length of time it touches the skin
- d) the time it takes to be irrigated

**2. Hydrofluoric acid's corrosive effect on the skin is represented by .....**

- a) fuming effect
- b) copious irrigation
- c) severe tissue damage
- d) inactivation of the free fluoride ion

**3. The preliminary step in treating the skin soon after contact with acid is .....**

- a) topical use of ammonium compounds
- b) formation of an insoluble fluoride salt
- c) fluoride activation
- d) repeated irrigation

**4. Claims about the healing effects of many topical therapies are largely .....**

- a) unverifiable
- b) unavoidable
- c) traditional
- d) scientific

**5. Pain relief and fluoride ion detoxification are the healing effects of .....**

- a) topical quaternary ammonium compound
- b) topical calcium carbonate gel
- c) insoluble fluoride salt
- d) any anecdotal therapy

**Passage Two**

In the study, mice were fed either a low- or high-fiber diet, and some had a type of bacteria in their gut that ferments fiber into a chemical called butyrate, while others did not. All of the mice were then given a cancer-causing chemical so that they would develop colon tumors.

The number of tumors was 75 percent lower in mice that were fed a high-fiber diet and had the butyrate-producing bacteria in their guts, compared with the other mice. However, the high-fiber diet by itself did not protect against colon cancer; nor did a low-fiber diet with butyrate producing bacteria.

Scott Bultman, the study author at the University of North Carolina School of Medicine, noted that healthy colon cells use butyrate for fuel, but cancer cells use the glucose. Butyrate collects inside the cells, potentially causing them to self-destruct, said Bultman.

The question of whether fiber protects against colon cancer in people has been controversial; some studies suggest a link between a high-fiber diet and a reduced risk of the disease, while others show no such link.

However, several recent studies have found that healthy people have higher levels of butyrate producing bacteria than people with colon cancer, Bultman said.

Future studies should look at people's diets, as well as their gut bacteria and genes, to determine whether there is a connection between a high-fiber diet with gut bacteria and a reduced risk of colon cancer, Bullman said.

**6. The mice in the study were given some .....**

- a) butyrate                      b) fiber diets                      c) carcinogen                      d) colon

**7. The participants best protected were among those with the..... in question.**

- a) butyrate                      b) bacteria                      c) fiber                      d) diet

**8. Too much butyrate seemingly collects inside the..... cells.**

- a) colon                      b) tumor                      c) healthy                      d) intact

**9. The study author claimed that tumor cells feed on .....**

- a) fuel                      b) glucose                      c) butyrate                      d) other cells

**10. Which paragraph in the passage suggests a link between the findings of mice studies and those on men?**

- a) Three                      b) Four                      c) Five                      d) Last

**Passage Three**

Each year thousands of people suffer severe head trauma in car crashes, falls or other accidents. Most such patients require long-term care, and so far treatments have been disappointing. Now researchers at several hospitals are testing whether they can help more patients recover fully by cooling them with ice water. The idea is to lower body temperature enough to slow a person's metabolism, thereby slowing a series of chemical reaction that immediately follow head injury and cause the death of brain cells.

During hypothermic- or cooling-therapy, patients are covered with cool blankets attached to pumps that provide a constant infusion of water. The body temperature is lowered in four to six hours to about 33 degrees Celsius, low enough to slow metabolism but not too slow to cause life threatening complications, like irregular heartbeat. Patients remain in this state for 24 or 48 hours. In a pilot study of 46 head-trauma victims. 52 percent of those given hypothermic therapy made a good recovery, compared with 36 percent treated with standard therapy at normal temperatures.

**11. Head trauma patients are said to .....**

- a) always suffer from neurological disorders  
b) inevitably require cooling therapy care  
c) suffer neurologically within 24-48 hours  
d) be likely to recover if hypothermically chilled



**12. Victims suffering head injuries are found to .....**

- a) lack normal metabolism
- b) have very irregular heartbeats
- c) require traditional long-term treatments for complete recovery
- d) have a better prognosis if their metabolic rate is reduced

**13. Hypothermia for such patients involves .....**

- a) reducing the deadly chemical reactions
- b) chemical reactions occurring at lowest temperatures
- c) infusing the victims' body with ice cold water
- d) standard therapy at normal temperatures

**14. The victim's metabolic rate is reduced .....**

- a) to regulate the elevated heartbeat
- b) to avoid dead brain cells causing further trauma
- c) by lowering his body temperature
- d) by preventing occurrence of all chemical reactions

**15. In the study conducted .....**

- a) 46 of 52 patients recovered fully
- b) 36 patients responded only to standard treatment
- c) the two types of treatment had similar results
- d) the hypothermic patients responded better to treatment

#### Passage Four

In the years since it was first proposed, the free radical theory of aging has gained wide acceptance. But hypotheses that attempt to explain exactly how free radicals are involved in the aging process are muddled by the lack of a clear definition of aging. Is aging a programmed stage of cellular differentiation, or is it the result of physiological processes impaired by free radical or other damages to cells? Despite the want of a clear definition, few question that free radical damages to cell nucleic acids and lipids are an important factor in aging. A recent study shows that oxygen free radicals cause approximately 10,000 DNA base modifications per cell per day. Perhaps the accumulation of unrepaired damage of this type accounts for the deterioration of physiological function. A new theory, however, indicates that free radicals also damage cell proteins and that the accumulation of oxidized protein is an important factor in aging.

**16. DNA modification in a cell can occur .....**

- a) 10000 times in the life of a cell
- b) 10000 times every second
- c) thousands of times a day
- d) just one time each day

**17. The main idea of this passage is that .....**

- a) although there are many theories, how free radicals really affect aging is unclear
- b) free radicals theory will finally lead scientists to the fountain of youth despite its demerits
- c) scientists need a clearer definition of aging
- d) free radicals fail to affect the cells lethally and irreparably

**18. The underlined phrase "want of" (line 5) is closest in meaning to .....**

- a) consequence of
- b) absence of
- c) need for
- d) request for

**19. The writer of this passage suggests that .....**

- a) aging is a programmed stage of cellular differentiation
- b) free radical damage to proteins increases with age
- c) aging is somehow related to the cell damage caused by free radicals
- d) the present definition of aging has muddled scientists

**20. According to this passage, free radical theory of aging is .....**

- a) rejected by some scientists due to confusions as to its definition
- b) accepted by some scientists but some aspects of it should be clarified
- c) questioned by some scientific communities due to its drawbacks
- d) mainly accepted by those who consider aging as a programmed process

**Part Two:  
Vocabulary**

**Directions**

Complete the following sentences by choosing the best answer.

**21. According to our recent medical knowledge, every medication, including those that are sold over the counter without a prescription, has a/an..... side effect.**

- a) prescribed
- b) recommended
- c) eradicated
- d) associated

**22. Researchers need sufficient funds so that they can have access to .....equipment and resources.**

- a) corroded
- b) proper
- c) decayed
- d) trivial

**23. Medical practices, as small business entities, don't have the power to..... Large commercial insurance companies.**

- a) negotiate with
- b) permeate in
- c) abstain from
- d) subscribe to

**24. Owing to its protective mechanisms, adequate salivary is..... in the defense against caries attacks.**

- a) crucial
- b) detrimental
- c) controversial
- d) peripheral

**25. On leaving the hospital the patient felt almost too weak to walk, but soon overcame his .....**

- a) conformity
- b) infirmity
- c) affinity
- d) dexterity

**26. The primary purpose of using sutures is to approximate wound margins and ..... tissue healing.**

- a) enclose
- b) endure
- c) endanger
- d) enhance

**27. Nasal bleeding from trauma usually stops spontaneously without requiring therapeutic .....**

- a) intervention
- b) intimidation
- c) interruption
- d) inversion

**28. Some drugs should not be..... used, because their combination can cause new disorders.**

- a) mistakenly
- b) distinctively
- c) intermittently
- d) concurrently

**29. The polio vaccine failed to be effective, since long exposure to heat had made it .....**

- a) impotent
- b) invariable
- c) immortal
- d) invaluable

- 30. The ultimate purpose of respiration is to supply adequate oxygen to the tissues and to efficiently ..... carbon dioxide produced in the tissues.**  
 a) give rise to      b) get rid of      c) get away with      d) give up on
- 31. Multicellular animals..... the majority of all named species of living organisms.**  
 a) rely on      b) account for      c) set up      d) result from
- 32. The nucleus is the most prominent organelle in most plant and animal cells; the rest of the cell contents, apart from the nucleus, ..... the cytoplasm.**  
 constitute      b) enclose      c) surround      d) prolong
- 33. The smallest particle of an element that still ..... its distinctive chemical properties is an atom.**  
 a) promotes      b) conducts      c) retains      d) assembles
- 34. Children suffering from malnutrition may be ..... but become interested in their environment again after normal nutrition is restored.**  
 a) retarded      b) prejudiced      c) anemic      d) apathetic
- 35. New communication technology has made..... methods of delivering health care services possible.**  
 a) alternative      b) dubious      c) elusive      d) fallacious
- 36. Empathy and mutual respect contribute to fostering a climate of..... between the nurse and the patient.**  
 a) strife      b) conflict      c) trust      d) hostility
- 37. A doctor feels a great deal of satisfaction when the patient recovers from a/an..... of illness.**  
 a) bout      b) outlook      c) impulse      d) cessation
- 38. The woman with the defective fetus went to clinic to..... her pregnancy.**  
 a) terminate      b) deliver      c) abort      d) labor
- 39. When a cure is not possible, the doctors try to relieve symptoms; they give ..... treatment.**  
 a) radiotherapy      b) palliative      c) terminal      d) remedial
- 40. After working in the same company as the two main partners for 10 years, they finally..... up.**  
 a) broke      b) took      c) made      d) pushed

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

## Part One Reading Comprehension

### Directions

Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c & d) below each one. Base your answers on the information given only.

### Passage One

Through a technique known as adopted cell therapy, doctors replicated a woman's own immune cells in the lab; then, they released them into her bloodstream. The tumors began melting away. Scientists are making strides in a new cancer treatment that manipulates the patient's immune system into going to war with malignant growths. The therapy, which could apply to a wide range of cancers, offers a silver lining for patients diagnosed with melanomas in the lungs, bladder and gastrointestinal tract. For example, in a study recently published in Science by the National Cancer Institute, doctors "sequenced the genome" of a 43 year-old woman, who had been struggling with a type of cancer that had not responded to chemotherapy, the New York Times reported. Through what is called "adopted cell therapy". Dr. Rosenberg and colleagues involved in authoring the study, identified "cells from her immune system that attacked a specific mutation in the malignant cells. Then they grew those immune cells in the laboratory and infused billions of them back into her bloodstream." said the Times. Rosenberg told the Times that through the process, the tumors began "melting away". He added, "It's the first time we have been able to actually target a specific mutation in the immune system," Rosenberg told NBC News.

#### 1. This passage mainly about.....

- a) using heat to melt cancer cells
- b) using the patient's immune system to attack cancer
- c) infusing silver in the blood stream to fight cancer cells
- d) removing cancer cells by heat and chemotherapy

#### 2. According to the passage, the..... by adopted cell therapy.

- a) immune system is suppressed
- b) tumor cells adapt to the new remedy
- c) immune cells are artificially generated
- d) tumor cells melt away in the lab tubes

#### 3. The writer has mentioned melanoma because .....

- a) it is unresponsive to chemotherapy
- b) there is evidence showing it is the most fatal malignancy
- c) it is the most common malignancy found in the world
- d) there have been some manipulative strides as to this cancer

#### 4. According to the passage, the writer has a ..... attitude towards treating cancers which are unresponsive to chemotherapy.

- a) promising
- b) discouraging
- c) neutral
- d) conservative

#### 5. It is stated in the passage that the ..... in order to remove the malignant mutation happening in the cell.

- a) blood stream is activated by chemotherapy
- b) blood is cleaned in the lab and then infused into the body
- c) cells, capable of invading malignancies, are infused
- d) cells become responsive to chemotherapy

### Passage Two

A wide variety of afflictions may be caused by vitamin deficiencies. Niacin deficiency, also known as pellagra, is associated with dermatitis, diarrhea, and dementia. Night blindness with or without keratomalacia, and dermatitis with rashes suggest vitamin A deficiency. Vitamin K deficiency may manifest itself as a bleeding diathesis due to the role of vitamin K in the formation of prothrombin and clotting factors VII, IX, and X. Scurvy, or vitamin C deficiency, results in the altered formation of connective tissues, such as collagen, osteoid, dentin, and intercellular cement substance. Vitamin B deficiency, or beriberi, occurs in three ways that generally overlap to some extent in any given patient. Neuromuscular signs and symptoms alone are known as "dry beriberi" but in association with edema are known as "wet beriberi." Heart failure, generally high- output failure, accounts for so-called cardiac beriberi.

**6. According to the passage, inflammation of the skin due to vitamin A deficiency .....**

- a) is common among the general public      b) causes raised spots on the skin  
c) results from keratomalacia                      d) causes pain in vital organs

**7. The test suggests that heart output may be influenced by..... deficiency.**

- a) vitamin A                      b) vitamin B                      c) vitamin K                      d) vitamin C

**8. Scurvy refers to vitamin..... deficiency.**

- a) A                                  b) B                                  c) K                                  d) C

**9. Lack of vitamin K may result in .....**

- a) neuromuscular symptoms                      b) non-stop hemorrhage  
c) cement substance alteration                      d) clotting factors formation

**10. Mental deterioration may result from the deficiency of**

- a) Niacin                                  b) vitamin A                                  c) vitamin K                                  d) vitamin C

### Passage Three

Cognitive problems caused by Alzheimer's are strongly influenced by a build-up of plaques in the brain. The plaques consist of amyloid beta- a protein that is produced as part of normal brain activity. Alzheimer's patients, however, have elevated levels of amyloid beta, which results in the protein clumping together as plaques. Most antidepressants stimulate the flow of serotonin, which reduces the production of amyloid beta in the brain. This has prompted the researchers to investigate antidepressants as a tool to control amyloid beta production in Alzheimer's.

Initially, results revealed that antidepressants successfully reduced amyloid beta production in the young mice without plaques by 25% after 24 hours. In the next phase, the researchers administered the antidepressant citalopram to older mice with plaques and found that citalopram halted the growth of the existing plaques, while formation of new plaques was reduced by 78% during 28 days. Subsequently, the samples from 23 cognitively unimpaired human subjects showed that amyloid beta production had dropped in the human participants by 37% over the 24 hours following the administration of the citalopram. The researchers, however, concluded that the risks aren't worth it unless we can more definitively prove that these drugs help slow or stop Alzheimer's in humans. For this, we expect results showing a drop in levels of amyloid beta in spinal fluid after two weeks that would allow us to know this beneficial reduction in amyloid beta is sustainable.

**11. The cause of cognitive problems in the brains of Alzheimer's patients is basically the .....**

- a) excessive production of a protein                      b) insufficient supply of serotonin  
c) existence of depression traits                                  d) inability to absorb citalopram

**12. Based on the information in the passage, antidepressants are assumed to indirectly ..... in Alzheimer's patients.**

- a) break clumped proteins apart
- b) increase the disposal of amyloid beta
- c) prevent proteins from clumping together
- d) decrease the production of amyloid beta

**13. In the experiments, the most sustainable results were reported for .....**

- a) mice with no plaques
- b) mice which already had plaques
- c) cognitively impaired human beings
- d) normal human beings with no plaques

**14. According to the researchers of the above study, citalopram has all the following effects EXCEPT .....**

- a) decreasing amyloid beta production
- b) reducing the formation of new plaques
- c) blocking the growth of the existing plaques
- d) halting the production of amyloid beta proteins

**15. It can be inferred from the passage that the antidepressants used in such studies may .....**

- a) have considerable adverse effects
- b) have no effect on the human being's brain
- c) be prescribed only in chronic cases
- d) show no short-term satisfactory results

#### Passage Four

The wealth of nations is a strong indicator of population health. But within nations, socioeconomic position is a powerful predictor of health as it is an indicator of material advantage or disadvantage over the lifespan. Material conditions determine health by influencing the quality of individual development, family life and interaction, and community environment. Material conditions of life lead to differing likelihood of physical (infections, malnutrition, chronic diseases, and injuries) developmental (delayed or impaired cognitive, personality, and social development), educational (loaming disabilities, poor learning, early school leaving), and social (socialization, preparation for work, and family life) problems. Overall, wealth of nations is a strong indicator of population health. But within nations, socio-economic position is a powerful predictor of health as it is an indicator of material advantage or disadvantage over the lifespan. Material conditions of life also lead to differences in psychosocial stress. The fight-or-flight reaction- chronically elicited in response to threats such as income, housing, and food insecurity, among others weakens the immune system, leads to increased insulin resistance, greater incidence of lipid and clotting disorders, and other biomedical insults that are precursors to adult disease.

**16. One way to estimate the..... of a nation is through its socio-economic stauts.**

- a) fight-or-flight reaction
- b) work preparation rates
- c) average health
- d) unique lifespan

**17. The presence of chronic diseases in a society can be a good indicator of .....**

- a) an infections ailment
- b) delayed cognitive development
- c) prevalence of physical disabilities
- d) unfair wealth distribution

**18. In response to social and economic problems, people may exhibit the .....**

- a) fight-or-flight reaction
- b) immune system boosting
- c) lipid dissolution increase
- d) adverse material condition

**19. It is understood that certain adult ailments, namely insulin resistance, may result from some .....**

- a) immune system deficiency b) lipid or clotting problems  
c) biomedical disturbances d) limited lifespan

**20. To promote the health status of citizens, it is implied that authorities should monitor people's .....**

- a) immune system features b) fight-or-flight reaction  
c) infectious diseases d) economic status

## **Part Two: Vocabulary**

### **Directions**

Complete the following sentences by choosing the best answer.

**21. This is the only organization which has been awarded for..... health policies issued by the ministry of health.**

- a) overlooking b) undertaking c) overlapping d) undermining

**22. Through computer ..... the medical students can be trained to perform and operation.**

- a) stimulation b) amplification c) assimilation d) simulation

**23. The policies regarding the implementation of new health systems reflect the ..... of new managers in promoting health systems which are client-based.**

- a) dispersion b) aspiration c) recreation d) inversion

**24. Reviewing the outcomes of former systems gives new..... to understand the disadvantages and develop new systems which are more efficient than before.**

- a) insights b) manuals c) incidents d) modules

**25. Before implementing any new system, you should first perform a..... study to ensure your goal will be reached in that setting**

- a) mobility b) availability c) feasibility d) readability

**26. Motility patterns in the small intestine serve not only to ..... intestinal contents, but also to mix them with enzymes and other digestive juices.**

- a) propel b) prolong c) conceal d) compel

**27. The formation of stones in the gallbladder is a disease that has..... human beings for thousands of years.**

- a) afflicted b) oppressed c) contracted d) protracted

**28. It is now believed that the body's immune response..... the lymphoid system.**

- a) proceeds b) resides in c) combats d) recurs in

**29. Adolescents with suicidal tendencies frequently..... whatever they find in the medicine cabinet.**

- a) ingest b) digest c) detest d) contest

**30. The disease and its subsequent two-year period of ..... left the athlete completely out of shape.**

- a) infirmity b) competence c) prosperity d) fortune

**31. The committee has recently questioned the manager's ..... to finish the assigned tasks without help.**

- a) competence      b) incapacity      c) prescription      d) impairment

**32. Every player of the team knew that he lacked the..... to continue playing for 90 minutes.**

- a) enervation      b) stamina      c) fragility      d) simultaneity

**33. There was no point in keeping the patient alive with the..... of all brain activity.**

- a) commencement      b) endurance  
c) congruence      d) expiration

**34. The large number of common cold patients referring to day-care centers show high ..... of this disease.**

- a) scarcity      b) eradication      c) prevalence      d) recession

**35. Trauma and infectious diseases have been the..... causes of death since the dawn of history.**

- a) current      b) evolving      c) intensive      d) leading

**36. It is believed that most diseases are ..... of abnormalities of molecules, chemical reactions, or biochemical processes.**

- a) disturbances      b) manifestations  
c) applications      d) interruptions

**37. Our study failed to take into account the participants' low level of physical activity which could ..... their physical health.**

- a) finalize      b) elevate      c) endanger      d) strengthen

**38. Failure of the doctor to ask the question about drug allergies or suspected reactions or to record the answers properly may be .....**

- a) life-saving      b) time-consuming  
c) vital      d) fatal

**39. Recreation is what you do for physical or mental ..... outside work.**

- a) constipation      b) enjoyment      c) prejudice      d) exertion

**40. On the third day, the patient noticed some change in his..... habits, which turned into diarrhea the very next day.**

- a) movements      b) motions      c) bowel      d) stool

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



## Part One Reading Comprehension

### Direction

Read the following passages carefully. Each passage is followed by some questions. Complete the questions with the most suitable words or phrases (a, b, c & d) below each one. Base your answers on the information given only.

### Passage One

Alternative medicine is, by definition, an alternative to something else: modern Western medicine. But the term 'alternative' can be misleading, even off-putting for some people. Few practitioners of homeopathy, acupuncture, herbalism and the like regard their therapies as complete substitutes for modern medicine, rather, they consider their disciplines as supplementary to orthodox medicine. The problem is that many doctors refuse even to recognize 'natural' or alternative medicine. This requires a radically different view of health, illness and cure. But whatever doctors may think, the demand for alternative form of medical therapy is stronger than ever before, as the limitations of modern medical science become more widely understood.

Alternative therapies are often dismissed by orthodox medicine because they are sometimes administered by people with no formal medical training. But, in comparison with many traditional therapies, Western medicine as we know it today is a very recent phenomenon. Until only 150 years ago, herbal medicine and simple inorganic compounds were the most effective treatments available. Despite the medical establishment's intolerant attitude, alternative therapies are being accepted by more and more doctors, and the World Health Organization has agreed to promote the integration of proven, valuable, 'alternative' knowledge and skills in Western medicine.

**1. According to the passage, conventional doctors reject alternative therapy since .....**

- a) patients have not been satisfied with it
- b) its practitioners are sometimes not academically qualified
- c) it is rather off-putting and sometimes misleading
- d) it has failed to be beneficial

**2. According to the text, the term 'alternative' is .....**

- a) increasingly established
- b) rather ambiguous
- c) appropriately defined
- d) quite comprehensive

**3. Few practitioners of alternative medicine think their therapies should .....**

- a) be substituted for modern medicine
- b) be a complement to modern medicine
- c) be repeated by the medical establishments
- d) be refused by modern health care systems

**4. Western medicine .....**

- a) has approved many traditional therapy practices
- b) is comparatively a recent occurrence
- c) has its practitioners change their attitudes
- d) was derived from alternative medicine

**5. The World Health Organization .....**

- a) is biased against alternative medicine
- b) has an intolerant attitude towards alternative medicine
- c) is going to train more alternative therapists
- d) approves of valid alternative medicine practices

### Passage Two

The social determinants of health are the economic and social conditions - and their distribution among the population - that influence individual and group differences in health status. They are risk factors found in one's living and working conditions (such as the distribution of income, wealth, influence, and power), rather than individual factors (such as behavioral risk factors or genetics) that influence the risk for a disease, or vulnerability to disease or injury. According to some viewpoints, these distributions of social determinants are shaped by public policies that reflect the influence of prevailing political ideologies of those governing a jurisdiction. The World Health Organization says that "This unequal distribution of health damaging experiences is not in any sense a 'natural' phenomenon but is the result of a toxic combination of poor social policies, unfair economic arrangements [where the already well-off and healthy become even richer and the poor who are already more likely to be ill become even poorer], and bad politics."

**6. It is understood that social conditions affect .....**

- a) health status
- b) people distribution
- c) economic status
- d) individual factors

**7. It is believed that ..... are more influential than individual factors in increasing one's susceptibility to diseases.**

- a) hereditary factors
- b) disparities in wealth distribution
- c) genetic abnormalities
- d) equitable sharing of wealth

**8. Some scholars hold that one can judge the..... from the distribution of income, wealth and health among the members of a society.**

- a) public police of the society
- b) prevailing individual factors
- c) governing body of the society
- d) behavioral risk factors

**9. The World Health Organization warns against the.....**

- a) toxicity threatening the poor
- b) individual experiences of the poor
- c) health status of the poor
- d) rich becoming more well-to-do

**WHO considers ..... as a threat to the health of the society.**

- a) poisonous substances
- b) the sense of natural phenomena
- c) poor economic arrangements
- d) fair social policies

### Passage Three

Previous studies on asthma suggested that antibiotics interfere with infants' beneficial gut bacteria, which cause a child to have an undeveloped immune system and become more susceptible to asthma. A new study has however shown that other factors increase asthma risk for children. The researchers looked at participants' medical records to determine their use of antibiotics and episodes of attack of asthma. The researchers collected blood samples from 11-year-old children who had received at least one course of antibiotics or no antibiotics in their first year of life. In the first part of the study, the team found that infants who had wheezing and were treated with antibiotics before their first birthday were more than twice as likely to develop asthma attacks or severe wheezing, and had lower introduction of cytokines (immune cells that help fight infection), compared with children who were not treated with antibiotics before the age of 1. However, the researchers note that they found no association between early antibiotics prescription and increased risk of allergic reactions. In the second pan. however, the team discovered two genes in the chromosome 17 region-known as 17q21 that were linked to increased risk of antibiotic prescription in early life. Researchers speculate that hidden factors which increase the likelihood of both antibiotic prescription in early life and subsequent asthma are an increased susceptibility to viral infections due to impaired antiviral immunity and genetic variants on 17q21.

**11. The researchers of the new study indicate that asthma susceptibility is most probably increased by**

.....

- a) antibiotics prescribed before the first birthday
- b) insufficiency of cytokines in the blood
- c) early-stage allergic reactions
- d) acquired immunity

12. Previously, it was believed that the main cause of episodes of asthma attacks was .....

- a) gut bacteria**
- b) interference of antibiotics
- c) prenatal susceptibility to asthma
- d) congenitally undeveloped immune system

**13. We can conclude from the first part of the new study that .....**

- a) first-year antibiotic prescription causes a genetic variation
- b) there is a link between early-life antibiotics use and subsequent asthma
- c) first-year antibiotic prescription is hardly related to cytokines in the blood
- d) there is a link between early-life antibiotics use and allergic reactions

**14. Results of the second part of the study suggested a tie between genetic variants on 17q21 and the**

.....

- a) probability of antibiotic prescription by doctors in the child's first year of life
- b) underdevelopment of the immune system caused by lack of gut bacteria
- c) frequency of episodes of asthma attacks and wheezing during infancy.
- d) allergic reactions not associated with antibiotic prescription in childhood.

**15. It is implied from the findings of the study that the best strategy in dealing with children who have taken antibiotics in their first year of life would be to .....**

- a) enhance antibiotic prescription
- b) test them for allergic reactions
- c) have them genetically tested
- d) examine them for viral infections

#### **Passage Four**

A new study found that Americans who eat a diet low in potassium were about twice as likely to die from a heart attack, compared with those whose diets have high levels of the mineral. The study doesn't prove cause-and-effect, but it does suggest a role of potassium in health.

The same study also found that people who were deficient in potassium were about 50 percent more likely to die from any cause during the length of the study.

Now, how do we get enough potassium? Sodium and potassium perform many of the same functions in the body, but they do so in very different ways. It's important to maintain a balance between sodium and potassium in the diet, because sodium intake can affect potassium excretion, and vice versa. People who reduce their sodium consumption and increase their potassium intake benefit from improved blood pressure, and reduce their risk for developing other serious health problems.

Bananas have a reputation for their potassium content; yet, sweet potatoes actually have more potassium, with a whopping 694 milligrams per serving.

**16. Having read the passage, we understand that a diet high in potassium .....**

- a) causes heart attack
- b) might be healthier
- c) is low in other minerals
- d) prevents myocardial infarction

**17. We may infer that some Americans aren't getting enough .....**

- a) to eat
- b) sodium
- c) minerals
- d) potassium

**18. When the body has a high sodium intake, its potassium intake might be .....**

- a) low                      b) higher                      c) improved                      d) maintained

**19. What the text recommends to be consumed more is .....**

- a) salt    b) bananas  
c) a certain vegetable                      d) fresh processed foods

**20. The writer suggests we should more often .....**

- a) eat out    b) have take-away  
c) eat home-made food                      d) enjoy restaurant meals

**Part Two:  
Vocabulary**

**Direction**

Complete the following sentences by choosing the best answer.

**21. The girl had received horrific injuries in the attack, the most important of which being..... both arms.**

- a) adhesions to    b) remission of  
c) lacerations to    d) resistance of

**22. The patient's pain could not be completely..... though it was temporarily relieved.**

- a) suppressed                      b) sustained                      c) provoked                      d) augmented

**23. She just made a/an ..... recovery; that's why she was never able to walk properly after the accident.**

- a) definite                      b) permanent                      c) speedy                      d) partial

**24. The nurse-patient relationship is based on the ..... the both are responsible in the process of health care.**

- a) premise                      b) submission                      c) curiosity                      d) segregation

**25. The doctor said very little directly, but a great deal by .....**

- a) intervention                      b) exploration                      c) variation                      d) implication

**26. The best strategies to..... sun-damaged skin are to avoid direct sunlight and use special skin-care products.**

- a) impair                      b) revitalize                      c) degenerate                      d) wreck

**27. The cancer patient's family always asked him not to ..... They expected him to have a fighting spirit all the way along.**

- a) abide                      b) persevere                      c) resist                      d) surrender

**28. The committee's..... goals of starting new projects and cutting costs at the same time meant that they would accomplish very little.**

- a) homogeneous    b) incompatible  
c) harmonious    d) desirable

**29. Back pain is one of the least..... medical conditions because the back affects so much of the body's movement and positioning.**

- a) contractible    b) considerable  
c) tangible    d) tolerable





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