

# آزمون کارشناسی ارشد وزارت بهداشت سال ۱۳۹۹

فایل سوالات

EMAD JAFARI

نوبت پنجشنبه صبح

**Part One: Vocabulary**

**Directions:** Complete the following sentences by choosing the best option.

**1. Some addictive drugs the user so ..... that no medication can help them get over the condition.**

- a) harmfully      b) beneficially      c) appropriately      d) advantageously

**2. The patient's condition was ..... with no sign of improvement. She decided to consult another doctor.**

- a) aggregated      b) alleviated      c) elevated      d) worsened

**3. The patients suffered from a fatal disease with unusual ..... like rash and acne.**

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

**4. Many nurses are not satisfied with the new regulations in the hospital; therefore, pressure on the officials is ..... for policy changes.**

- a) emitting      b) exiting      c) rising      d) quitting

**5. There is an urgent need for suitable and effective public health services for poor people who cannot ..... private health services.**

- a) afford      b) affirm      c) confirm      d) confer

**6. Immunization programs follow important goals of controlling, eliminating, or ..... a disease.**

- a) developing      b) dispersing      c) aggravating      d) eradicating

**7. A team of professional researchers came up with valuable findings which would have ..... implications for successful treatment of infection.**

- a) profound      b) trivial      c) hazardous      d) minimal

**8. Modern medicine is characterized by the ..... of new and advanced techniques in professional practice.**

- a) restrictions      b) utilization      c) inhibition      d) deterioration

**9. A patient developing diarrhea tends to have .....**

- a) permanent flow of the blood      b) bringing up food from stomach  
c) continual emptying of the bowels      d) unpleasant desire to eat food

**10. In his statement, the statistician said that the results of their joint study were4 virtually the same as those of previous.....**

- a) applications      b) investigations      c) contaminations      d) associations

**11. According to climatic predictions ..... weather conditions in 2050 will be widespread global threat if preventive measures are not taken.**

- a) advisable      b) promising      c) rewarding      d) adverse

**12. The Covid-19 ..... was first identified in Wuhan, China, in December 2019 and then rapidly spread worldwide.**

- a) addiction      b) suspension      c) outbreak      d) outskirts

**13. The patient was really concerned about her illness, so she ..... followed promising instruction of her physician.**

- a) reluctantly      b) willingly      c) ignorantly      d) pessimistically

**14. In the past, surgeons were not able to operate on the liver due to its ....., or sensitiveness to touch.**

- a) vitality      b) affinity      c) frailty      d) maturity

**15. Without the ..... action of the emergency room staff, the patient with heart attack surely would have died.**

- a) prompt      b) delayed      c) desperate      d) destructive

**16. Scientists have not reached a complete ..... the cause of the disease. Further investigation is needed to reach a general agreement.**

- a) contribution to      b) scope of      c) consensus on      d) struggle for

**17. According to WHO, the main ..... of health include the socio-economic environment, the physical environment, and the person's individual characteristics and behaviors.**

- a) determinants      b) deterrents      c) detectors      d) detergents

**18. When you exercise regularly, you may feel more competent and confident in your body, which in turn ..... your mental wellbeing.**

- a) precedes      b) prevents      c) projects      d) promotes

**19. Some supplements can ..... with medications and cause side effects, so you may want to consult a doctor if you have a medical condition.**

- a) cope      b) converse      c) interact      d) deal

**20. Although many ..... are developed to relieve headache symptoms, a number of effective and natural treatments also exist.**

- a) aspirations      b) medications      c) intentions      d) emissions

### Part Two: Reading Comprehension

**Directions: Read the passages carefully, and answer the following questions by choosing a, b, c, or d which best completes each item. Base your answers on the information given in the passage only.**

#### Passage 1

Environmental temperatures on earth are maintained by the energy received as solar radiation. Living organisms themselves produce energy as a by-product of the chemical reactions in their metabolic activity; when an organism is in a steady state, this metabolic energy production is just balanced by the rate at which heat is transferred to the environment. The range of steady-state temperatures within which organisms can survive is almost limited, which can be understood when we consider the effects of temperature on biological elements such as proteins, nucleic acids and lipids of cell membranes. A native protein, as found in healthy organisms, has a characteristic structure which depends on the particular sequence of amino acids along the chain. However, changes in temperature, which affect both the molecule and the solution in it, can cause the protein chain to change its structure, generally becoming more flexible, so that it is no longer able to perform its biological function. The protein has then been thermally "denatured".

**21. Energy production is the ..... function of chemical reactions in living organisms.**

- a) main      b) secondary      c) dominant      d) single

**22. The rate of heat transferred to the environment is responsible for the ..... of metabolic energy production in organisms.**

- a) absorption      b) fluctuation      c) inhibition      d) balance

**23. The effects of temperature on biological elements show the ..... .**

- a) stability of energy production in the body  
b) flexibility of the biological functions in the body  
c) limited range of temperature for the survival of organisms  
d) amount and type of biological elements

**24. The particular sequence of amino acids ..... The protein structure.**

- a) inhibits      b) transmits      c) degenerates      d) determines

**25. Protein denaturation is the result of ..... .**

- a) changes in temperature      b) biological malfunction of the body  
c) stability of body temperature      d) energy balance in the body

**Passage 2**

Bio-hacking is the process of manipulating your brain and body to optimize performance. Its methods reach beyond the area of traditional medicine and include a wider range of practices. Some people do more common things like Vipassana meditation, intermittent fasting, consuming high doses of daily supplements and tracking sleep. Others may get into stranger techniques such as stem cell injections, bathing in infrared light, cryotherapy, neurofeedback and wading in virtual float tanks. The goal of bio-hacking also differs among supporters but, for the most part, is typically to improve health to the highest achievable levels. This means being as smart and as strong as possible, for as long as possible. According to gerontologist, Aubrey de Grey, people will live to be 1,000 years old and the first person who will live to be 1,000 years is actually already born. He supports this claim based on his current research on repairing different types of cellular and molecular damage that is associated with aging. For him, and others with similar views, aging is not so much a health problem but more of an engineering one.

**26. Which of the following is NOT mentioned as a form of common bio-hacking?**

- a) Taking large amounts of supplements
- b) Avoiding eating at periodic intervals
- c) Having routine Sauna bathing
- d) Keeping a record of one's sleep

**27. People mostly engage in bio-hacking for .....**

- a) manipulating others' brain
- b) restoration of one's health
- c) engineering life problems
- d) prevention of molecular balance opinions about its

**28. It is stated in the passage that supporters of bio-hacking have ..... Objectives about its objectives.**

- a) different
- b) damaging
- c) flexible
- d) similar

**29. Gerontologists like de Grey are attempting to extend the average lifespan by .....**

- a) deliberately abandoning bio-hacking
- b) delaying the mental performance
- c) ignoring the engineering problems
- d) fixing damaged cells and molecules

**30. The main point of this text is that .....**

- a) bio-hacking is unbelievably dangerous
- b) people will finally live up to age 1,000
- c) manipulating brain and body has serious consequences
- d) bio-hacking may lead to health optimization

**Passage 3**

Recent research highlights the prevalence of mental health problems more than previously supposed in elderly populations without dementia. Intermittent forgetfulness is normal, but persistent depression, anxiety, memory loss, or other cognitive issues can indicate something more serious. We don't exactly know whether such disorders increase or decrease with age. By estimation, 20% of people aged 55 years or older experience anxiety, severe cognitive impairment, and mood disorders (e.g., depression or bipolar disorder). In extreme cases, these may lead to suicide. Reportedly, men above 85 years of age have a suicide rate of 45.23 per 100,000, compared to an overall rate of 11.01 per 100,000 for all ages.

As for mood disorders, depression is the most prevalent among older adults, sometimes leading to impairments in physical, mental and social functioning. Depressive disorders often adversely affect the course of aging and complicate the treatment of other chronic diseases. Older adults with depression visit the doctor and emergency room more often, use more medication, incur higher outpatient charges, and stay longer in hospital. Although the rate of older adults with depression tends to increase with age, depression is not a normal part of growing older, rather, in 80% of cases, it is a treatable condition. Unfortunately, depression is a widely under-recognized condition, and is often untreated or undertreated among older adults.

**31. According to the passage, it is natural for the elderly populations without dementia to suffer from .....**

- a) depression or bipolar disorder
- b) severe cognitive impairment
- c) discontinuous fall of memory
- d) persistent memory loss

**32. According to a report, ..... commit suicide roughly four times more than that of the general population of the same gender.**

- a) men and women  
b) men aged above 85 years  
c) people aged above 55 years  
d) the elderly without dementia

**33. According to the author, the most ..... condition which negatively affects body, mind, and relations with others is the mood disorder.**

- a) negligible  
b) underrated  
c) trivial  
d) prevalent

**34. Based on the text, old adults with depressive disorder would .....**

- a) experience complicated chronic diseases  
b) have a desirable course of aging  
c) rarely be admitted as an outpatient  
d) hardly suffer impaired social performance

**35. The text considers depression as one of the ..... discomforts.**

- a) largely subsiding  
b) previously treated  
c) easily curable  
d) age- related

#### Passage 4

Influenza pandemics are similar to major natural disasters: we know there will be another one, but we ignore both time and magnitude. Earthquakes in Tokyo or San Francisco last from seconds to a couple of minutes but pandemics spread around the world in many waves over months or years. An influenza pandemic may be a thousand times more deadly than even the deadliest tsunami.

Influenza is as unpredictable as its pandemics. We know nothing about the pathogenic potential of the next pandemic type. We do not know if the next pandemic will be caused by the current disease, H5N1, or by another influenza type. We are unaware of how the next pandemic will evolve over time, how rapidly it will spread around the world, and in how many waves. We do not know which age groups are at the highest risk of severe outcomes. We have no idea whether the next pandemic will kill 2, 20, or 200 million people.

It is wise to imagine and plan for the worst when facing an unknown threat. As the threat is global, strategies must be global, affecting more than two hundred nations. Dealing with nations and their leaders is like dealing with children in a kindergarten. In this difficult context, the WHO is performing an astonishing job.

**36. It can be inferred from the passage that .....**

- a) the author is certain that preventive programs are well planned  
b) the author is worried about the future possible pandemic  
c) different countries have positive cooperation over influenza pandemic  
d) the next pandemics are easier to control than the previous ones

**37. The second paragraph mainly deals with .....**

- a) the serious outcomes of influenza  
b) pandemics in previous years  
c) the time and magnitude of the next pandemic  
d) lack of information about future pandemics

**38. According to the passage, WHO .....**

- a) has successfully prevented all previous pandemics  
b) has ignored the role to be played by each country  
c) finds it difficult to unite countries in face of pandemics  
d) is certain about successful management of future pandemics

**39. A pandemic and an earthquake are ..... In duration and intensity.**

- a) predictable  
b) different  
c) preventable  
d) identical

**40. It is inferred from the passage that the author is worried about the ..... As a global threat.**

- a) high fatality rate of pandemics  
b) subsiding influences of pandemics  
c) features of next pandemics  
d) preventive measures for pandemics

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



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**Part One: Vocabulary**

**Directions:** Complete the following sentences by choosing the best option.

1. People with al/an ..... character do not think carefully before they talk and behave.  
a) attentive                      b) talented                      c) predictive                      d) impulsive
2. Although the decision was made ..... without previous planning, it proved to be very influential.  
a) spontaneously                      b) remarkably                      c) gradually                      d) credibly
3. The success of the program planned by the university was due to the ..... ideas provided by the intelligent students.  
a) damaging                      b) illogical                      c) constructive                      d) conflicting
4. New testing and screening measures have successfully ..... the risk of transmitting diseases such as Hepatitis B and C, and AIDS.  
a) diminished                      b) augmented                      c) enhanced                      d) aggravated
5. The death rate of infectious diseases has significantly decreased because doctors and specialists are very ..... in their practice.  
a) reluctant                      b) indifferent                      c) neutral                      d) meticulous
6. Doctors believed that the old patient should undergo surgery if the morbid condition .....  
a) subsides                      b) terminates                      c) persists                      d) alleviates
7. Mary was ..... to see her physician because she was extremely afraid of injections.  
a) responsive                      b) reluctant                      c) impartial                      d) impatient
8. Fever, among others, is one obvious ..... of some infectious diseases.  
a. manifestation                      b. manipulation                      c. intervention                      d. inflammation
9. While substance abuse and substance dependence need to be differentiated, ordinary people may consider them to be different ..... of the same disorder.  
a. violations                      b. varieties                      c. repressions                      d. admissions
10. Natural products are considered by many to be safer and healthier than ..... products such as plastics.  
a. symmetric                      b. synergistic                      c. synchronic                      d. synthetic
11. A wide range of roles, tasks and responsibilities are listed within the ..... of nursing practice.  
a. scope                      b. sketch                      c. Scratch                      d. spike
12. People under the influence of alcohol should ..... driving to avoid accidents.  
a. disturb                      b. relieve                      c. cease                      d. aggravate
13. After the accident, the patient became so weak and had to be more careful as he became ..... to all the attacking germs.  
a. accustomed                      b. opposed                      c. resistible                      d. vulnerable
14. The main reason for her fast recovery was the presence of a/an ..... nurse beside her during her sickness.  
a. clumsy                      b. competent                      c. novice                      d. infected
15. After too many futile attempts, they finally ..... all the hope that she was alive; so they gave up searching.  
a. generated                      b. elevated                      c. relinquished                      d. sustained

16. The diagnoses made by the two physicians were ..... ; so they prescribed similar therapeutic procedures for the patient.

- a. identical                      b. trivial                      c. irrelevant                      d. diverse

17. The COVID-19 virus spreads primarily through droplets of saliva or ..... the nose when an infected person coughs or sneezes.

- a. inhalation from                      b. breakage of                      c. congestion of                      d. discharge from

18. In 2015, several trends..... in the US health care system which are still working, with significant positive impacts.

- a. subsided                      b. emerged                      c. evaded                      d. saturated

19. A radio signal from outside the body activates the electronics in the implant, which then ..... electrical signals directly to the cells.

- a. transmits                      b. represses                      c. aggravates                      d. represents

20. 140 - Being overweight causes the body to ..... chemicals that can destabilize the body's cardiovascular and metabolic systems.

- a. rehearse                      b. confront                      c. contract                      d. release

### Part Two: Reading Comprehension

**Directions:** Read the passages carefully, and answer the following questions by choosing a b, c, or d which best completes each item. Base your answers on the information given in the passage only.

#### Passage 1

Reading Comprehension Direction: Read the passages carefully, and answer the following questions by choosing a, b, c, or d which best completes each item. Base your answers on the information given in the passage only.

Psychologist George Spilich decided to find out whether, as many smokers say, smoking helps them to think and concentrate. He put non-smokers, active smokers and smokers deprived of cigarettes through a series of tests. In the first test, each subject sat before a computer screen and pressed a key as soon as he or she recognized a target letter. In this simple test, smokers, deprived smokers and non-smokers performed equally well. The next test was more complex. Non-smokers were faster, but under the stimulation of nicotine, active smokers were faster than deprived smokers. In the third test of short-term memory, non-smokers made the fewest errors, but deprived smokers committed fewer errors than active smokers. In the fourth test, nonsmokers were the best, and deprived smokers performed better than those who had smoked a cigarette just before testing. As the tests became more complex, non-smokers performed better than smokers by wider and wider margins.

21. It is mentioned in the passage that the purpose of George Spilich's experiments was to .....

- a. test the positive effect of smoking on thought and concentration  
b. show how smoking damages people's ability to concentrate  
c. prove that smoking affects people's regular performance  
d. show that non-smokers are less productive at work than smokers

22. We understand from the passage that .....

- a. deprived smokers in general did not perform better than active smokers  
b. active smokers responded more quickly than the other subjects in all tests  
c. non-smokers were not better than other subjects in the first simple test  
d. deprived smokers gave the slowest responses to the various tasks

23. George Spilich conducted the experiment to .....

- a. check the effectiveness of nicotine on nonsmokers  
b. test the subjects' concentration under different tests  
c. help the subjects finish the tests quickly  
d. make the subjects recall the words



24. The researcher in this study was actually testing what .....

- a. the public believes about smoking
- b. the subjects needed to stop smoking
- c. smokers thought about positive smoking effects
- d. previous studies on smoking had suggested

25. In three of the four tests, ..... performed better than other participants.

- a. deprived smokers
- b. active smokers
- c. passive smokers
- d. non-smokers

### Passage2

It is clear that learning methods have evolved with technology over the years, and most teachings have left the four walls of the classroom. Some still haven't; but fortunately, language learning has. There are many reasons that make it necessary to use technology in this field, one of which is the difficulty of learning a new language. It is a special skill because the process of picking up a new language requires the brain to construct brand new linguistic structures; a difficult but achievable task. This is another fitting situation for the application of technology. Rather than being forced to comprehend at the speed of classmates, mobile applications and tutorial videos for language learning help students learn whenever they like, at their own pace. They are also useful in cases where one needs to learn how to communicate in specific situations, such as a vacation or business trip. In a traditional learning structure, it isn't always easy to track daily progress. However, students learning with mobile applications can track their daily progress, and may even get suggestions on how and where to improve, depending on the application. With the improvements made by technology in language learning, it is clearly now an easier target.

26. What does the author mean by "teachings have left the four walls of a classroom"?

- a. Home schooling is available for most students.
- b. Traditional methods of teaching are coming back.
- c. Teachings are moving out of traditional classes.
- d. Teachings now hardly depend on technology.

27. Learning a new language is so difficult since it .....

- a. is a time-consuming and boring activity
- b. is very costly for almost every learner
- c. requires both intelligence and advanced technology
- d. requires the brain to build new linguistic structures

28. The passage has included all of the following choices as ways in which technology facilitates language teaching EXCEPT .....

- a. helping students learn at their own speed
- b. developing quizzes and tests
- c. tracking learners' daily progress
- d. suggesting how and where to improve

29. The author's attitude towards technology-based language teaching and learning seems to be .....

- a. promising
- b. disappointing
- c. pessimistic
- d. suspicious

30. The writer of the passage concludes that technology has made language learning an ..... goal.

- a. advanced
- b. achievable
- c. insignificant
- d. improper

**Passage 3**

Nine out of ten people breathe polluted air every day. In 2019, air pollution was considered by WHO as the greatest environmental risk to health. Microscopic pollutants in the air can penetrate respiratory and circulatory systems, damaging the lungs, heart and brain, killing 7 million people prematurely every year from diseases such as cancer, stroke, heart and lung I Around 90% of these deaths are in low- and middle-income countries, with high volumes of emissions from industry, transport and agriculture, as well as dirty cook stoves and fuels in homes. The primary cause of air pollution (burning fossil fuels) is also a major contributor to climate change, which impacts people's health in different ways. Between 2030 and 2050, climate change is expected to cause 250,000 additional deaths per year, due to malnutrition, malaria, malaria, diarrhoea and heat stress.

**31. In this passage, WHO.....in 2019.**

- a. lighted the importance of air pollution
- b. listed the names of all areas polluted
- c. eliminated the problem of pollution
- d. listed all the risks of air pollution

**32. According to the passage, organs like lungs, heart and brain ..... microscopic pollutants when the polluted air is inhaled.**

- a. are resistant against
- b. are directly exposed to
- c. would stand away from
- d. would get along with

**33. According to the passage, there is a/an ..... relationship between air pollution and the number of related deaths.**

- a. negative
- b. unclear
- c. unpredictable
- d. direct

**34. The negative effect of climate change on people's health is ..... air pollution.**

- a. different from that of
- b. identical to that of
- c. beneficial unlike
- d. superficial unlike

**35. Problems like malnutrition, malaria, diarrhoea and heat stress are ..... .**

- a. among the causes
- b. independent
- c. consequences
- d. future sources

**Passage 4**

The cloning of genes has made many medical advances possible. Human growth hormone (HGH) is a good example. This hormone stimulates the growth of bones and muscles during childhood. Cloning the gene for HGH has provided an increase in the availability of the hormone. However, the availability of HGH and other products of biotechnology raises an ethical question. The hormone is used widely to treat children with dwarfism, a condition that results in an adult height of 4 feet and 10 inches or shorter. Should HGH be available to anyone who wants taller children or only those who have children with dwarfism? Suppose parents want their average-size son to be taller so he will have a better chance of making his high school team. Doctors do not have any evidence that exposure to HGH affects average-size children negatively, but many feel it is unethical to provide it to children with no serious medical need.

**36. The writer states that cloning the gene for HGH is ..... .**

- a. quite detrimental
- b. categorically beneficial
- c. abnormally problematic
- d. ethically controversial

**37. The author of this reading selection seems to ..... .**

- a. sympathize with children suffering from dwarfism
- b. consider gene cloning unethical in all cases
- c. condemn parents with average-size children
- d. disregard new developments in medical sciences

38. It is implied that regarding height, average-size children .....

- a. are negatively affected by HGH
- b. are without serious medical need
- c. can be very fit for high school teams
- d. mostly participate in high school teams

39. What does the underlined "it" in the second sentence refer to?

- a. exposure
- b. HGH
- c. better chance
- d. unethical thing

40. It is implied in this reading selection that the growth hormone mentioned .....

- a. may have more side-effects than what scientists predicted
- b. can lead to eradication of almost all growth problems
- c. is welcomed by some but criticized by others
- d. is experiencing its early stages of development

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

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**Part One: Vocabulary**

**Directions:** Complete the following sentences by choosing the best option.

1. **Trauma and infection diseases have been the ..... causes of death for a long time, with many lives lost.**  
a) promising      b) declining      c) depriving      d) leading
2. **Despite his doctor's warnings to avoid getting overweight, he was unable to ..... desire for fatty foods.**  
a) confirm      b) convict      c) conceal      d) confuse
3. **Scientists believe that physical exercise ..... an individual's state of health.**  
a) contrasts with      b) contributes to      c) is characterized by      d) is disapproved by
4. **Medical scientists studying DNA and genes try to ..... those genes which cause inherited diseases.**  
a) detect      b) protect      c) advocate      d) proliferate
5. **Medicine is a discipline which ..... many other fields of study such as physiology and pathology.**  
a) encompasses      b) endangers      c) entangles      d) entitles
6. **Epidemiologists believe that immunity by vaccination should be ..... for some diseases every ten years.**  
a) subsided      b) suspended      c) reinforced      d) contracted
7. **People ..... severe infectious diseases should visit a specialist before any intervention.**  
a) assessed by      b) elicited by      c) supplied with      d) afflicted with
8. **Restricted to sunshine is recommended to people suffering from skin-related diseases.**  
a) susceptibility      b) exposure      c) contribution      d) objection
9. **She fell down the stairs, ..... her ankle and breaking her leg.**  
a) twisting      b) squeezing      c) transferring      d) sustaining
10. **Regulation of temperature through dispersing heat is one of the main ..... of the skin.**  
a) conflicts      b) failures      c) dilemmas      d) functions
11. **The acquisition of physical characteristics are mainly due to ..... rather than the environment.**  
a) morbidity      b) heredity      c) vitality      d) fatality
12. **Educational psychologists have suggested significant revolutionary steps to ..... the quality of tertiary education in the country.**  
a) hamper      b) diminish      c) promote      d) penetrate
13. **For the purpose of a better diagnosis, the medical team decided to perform a more ..... examination on the patient.**  
a) superficial      b) elaborate      c) repressive      d) detrimental
14. **Chronic pain is a type of pain which ..... and lasts for three months or more.**  
a) persists      b) fades away      c) attenuates      d) vanishes
15. **Taking a complete history can help ..... the information needed for a thorough differential diagnosis.**  
a) repress      b) elicit      c) underrate      d) inhibit
16. **Because of the complexity of the disease, groups of multidisciplinary specialists have ..... to decide about the possible treatment modality.**  
a) concealed      b) evaded      c) avoided      d) convened

17. Blood is a ..... through which essential nutrients are taken to tissues.

- a) medium                      b) marker                      c) spectrum                      d) barrier

18. In many instances of the disease, the virus remains at the initial site of infection, and possible symptom ..... from that site.

- a) withdraws                      b) recedes                      c) originates                      d) escapes

19. Medical research has ..... promising results to fight against Coronavirus.

- a) abandoned                      b) infected                      c) revealed                      d) surrounded

20. Scientists managed to ..... a nerve fiber in the brain which carries messages from od to cell.

- a) complicate                      b) combat                      c) represent                      d) identify

### Part Two: Reading Comprehension

**Directions:** Read the passages carefully, and answer the following questions by choosing a, is and which best completes each item. Base your answers on the information given in the passage only.

#### Passage 1

As the COVID-19 pandemic spreads to the world's poorest regions, the weakest countries will be affected the hardest by adding a serious health and economic crisis to existing poverty and climate crises. This multifaceted crisis will keep adding pressure to poorer communities. Clean energy is believed to be necessary to help countries prepare, respond, and recover from COVID-19 crisis. Clean energy can provide solutions that are in line with climatic goals and can help reduce the effects of the COVID-19 crisis on people's life and local economies. On the frontline of the battle against COVID-19, energy for households and health centers is highly necessary. As many as 840 million people do not have electricity, 570 million of them live in sub-Saharan Africa, where one in four clinics has no energy at all, and 28 percent do not have regular access to energy. Reliable power supply ensures that core systems for the management of health programs can work effectively. In regions where the electricity is unreliable or even non-existent, clean energy technologies provide solutions that can be used rapidly. With reliable clean energy, health centers can work all the time, instead of depending on candles or phone flashlights. Clean energy can also address some of the health risks that might make people weaker in the face of respiratory diseases such as COVID-19. Access to the energy also makes social distancing policies possible and can provide reliable access to clean water, an important element in times of COVID-19.

21. The first sentence of the passage mainly deals with ..... in the poorest countries.

- a) climate change caused by Covid-19    b) treatment difficulties of Covid-19  
c) serious consequences of Covid-19                      d) rapid spread of Covid-19

22. According to the passage ..... is extremely important for households and health centers in the fight against COVID-19.

- a) economy                      b) energy                      c) clinics                      d) technology

23. The main problem in sub-Saharan Africa is .....

- a) clean water                      b) shortage of electricity  
c) lack of clinics                      d) health mismanagement

24. It can be inferred from the passage that .....

- a) the COVID-19 affects all countries similarly  
b) sub-Saharan African countries do not need more clinics  
c) clean energy can help prevention of the COVID-19  
d) phone flashlights provide a reliable energy supply

25. The clean energy .....

- a) makes it possible for health centers work nonstop  
b) makes people weaker in the face of COVID-19  
c) removes social distancing policies  
d) can predict social health risks

**Passage 2**

In many disabling illnesses, simple exercises are begun even while a patient is still in bed. Hot packs and other forms of local heat application may be used in the early stages of poliomyelitis at the same time an effort is being made to exercise muscles. If a person has suffered a stroke which has paralyzed his limbs, the limbs must be exercised from the very beginning in order to prevent the joints from becoming stiffened and fixed in position, and to maintain strength in the muscles. If active exercises are begun and a program of massage is carried out after the patient has regained consciousness, the possibility of the patient being bedridden for the rest of his/her life can be lessened.

**26. According to the passage, simple exercises start ..... in a lot of disabling diseases.**

- a) at the very early stages of the illness
- b) when the patient leaves the hospital
- c) after the patient receives other interventions
- d) before the application of hot packs and heat

**27. In the beginning stages of poliomyelitis, ..... .**

- a) only heat application is used to help the patient
- b) the exercise of the joints is performed
- c) hot packs as well as exercise are locally applied
- d) a lot of efforts are being made in exercises

**28. In a stroke, ..... .**

- a) the limbs will be fixed in position
- b) the muscles will never regain their strength
- c) exercises of the joints should be avoided
- d) prompt efforts should be taken to stop joint stiffness

**29. In which of the following situations can the chance of being bedridden forever be decreased?**

- a) When the massage programs begin before regaining consciousness
- b) Applying exercises and massage after the patient becomes conscious
- c) When hot packs and exercises are applied at the final stage
- d) Fixing the paralyzed patient's limbs before the patient becomes conscious

**30. The passage is generally about ..... .**

- a) how stroke patients should be treated to regain consciousness
- b) when to prevent poliomyelitis in stroke patients
- c) why the joints become stiffened using local heat
- d) measures to be taken to help patients with disabling illnesses

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**Passage 3**

Anxiety disorders and depression seriously harm people in this technological age. Young adults, who are particularly at risk of mental illnesses, are associated with a greater risk of substance use, suicide, and poor academic performance. Research has shown that the use of social media, such as Facebook and Instagram, are linked to both depression and anxiety. The increased use of social media might lead to negative online experiences, a low amount of real, face-to-face communication, and attention deficit disorder. The frequently unrealistic presentation of one's physical appearance and life achievement on social media often cause strong feelings of dissatisfaction, low self-confidence, and decreased self-worth.

**31. According to the passage, increased use of social media has ..... people's well-being.**

- a) worsened
- b) elevated
- c) nothing to do with
- d) been adjusted with

**32. According to the passage, face-to-face communication ..... greater use of social media.**

- a) happens regularly by
- b) is disregarded with
- c) is independent of
- d) is reduced by

**33. How is people's self-image influenced by the social media?**

- a) They avoid using social media regularly.
- b) They are afraid of technological advances.
- c) They present a false picture of their lives.
- d) They think very highly of themselves.

**34. The author believes that fake self-manifestations on social media could..... .**

- a) have a positive outcome
- b) result in displeasure and worthlessness
- c) enhance the youth self-esteem
- d) cause satisfaction and self-worth

**35. The author concludes that low self-confidence and decreased self-worth ..... unreal presentations on social media.**

- a) give rise to
- b) result from
- c) contribute to
- d) prevent from

**Passage 4**

Healthcare workers treating patients with infections are at risk of infection themselves. To protect themselves against droplets from coughs, sneezes or body fluids from infected patients and contaminated surfaces, they use personal protective equipment (PPE), e.g., aprons, gowns or coveralls, gloves, masks and breathing equipment (respirators), and goggles.

But if not worn correctly, these may endanger healthcare workers when they remove PPE. Covering more of the body leads to better protection. Coveralls are the most difficult PPE to remove but may offer the best protection, followed by long gowns and aprons. Respirators worn with coveralls may protect better than a mask worn with a gown, but are more difficult to put on. More breathable types of PPE may lead to similar levels of contamination but be more comfortable. Gowns that have gloves, and gowns that fit tightly at the neck may reduce contamination. Also, adding tabs to gloves and face masks may lead to less contamination. More breathable types provide greater comfort and satisfaction but may lead to similar contamination. Faceto-face training in PPE use is recommended as the most effective strategy to reduce errors. But to find out which combinations of PPE protect best, we still need further research findings, simulation studies with more participants, and more real-life evidence.

**36. In the first paragraph, the underlined pronoun 'they' refers to .....**

- a) infected patients
- b) droplets from coughs and sneezes
- c) healthcare workers
- d) bodily fluids

**37. Safe removal of PPE is ..... the way it is put on by the health workers.**

- a) influenced by
- b) independent of
- c) identical to
- d) irrelevant to

**38. The author of the passage ..... the best combinations of PPE protection.**

- a) approves health workers' suggestions on
- b) calls for more studies and evidence for
- c) provides more satisfaction with
- d) wants infected patients to avoid

**39. It can be inferred from the passage that ..... are associated with users' comfort and satisfaction.**

- a) similar levels of contamination
- b) more training in PPE use and tables
- c) respirators worn with coveralls
- d) more breathable PPE types

**40. Which of the following three PPE items are stated to be the most protective and least comfortable?**

- a) coveralls, long gowns and aprons
- b) coveralls, aprons and face masks
- c) gloves, makes and respirators
- d) aprons, masks and gloves

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



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**Part One: Vocabulary**

**Direction:** Complete the following sentences by choosing the best option.

1. Even very simple and common methods of hygiene such as hand washing can help to control the outbreak of .....  
 a) infection                      b) suspension                      c) suspicion                      d) ingestion
2. Sometimes when medical tests provide false positives, further testing may be required for .....  
 a) persuasion                      b) compensation                      c) confirmation                      d) standardization
3. The psychologist was able to make clear what the patient felt despite the fact that she tried to ..... her feelings.  
 a) displace                      b) devise                      c) disturb                      d) disguise
4. The pressure ..... by parasitic diseases should be taken into consideration by scientists studying the case.  
 a) exerted                      b) removed                      c) alleviated                      d) abandoned
5. Doctors usually refer to different routs of drug ..... for children because of their resistance to medical intervention.  
 a) observation                      b) administration                      c) accumulation                      d) suppression
6. Microorganisms are ..... into different classes based on their pathogenic power.  
 a) transmitted                      b) transplanted                      c) categorized                      d) compared
7. Researchers are constantly working on the factors contributing to people's life ..... In order to extend their lifespan.  
 a) manifestation                      b) expectation                      c) adequacy                      d) expectancy
8. All members of the medical team agreed on the type of intervention. There was perfect ..... among them.  
 a) unanimity                      b) ambiguity                      c) utility                      d) diversity
9. As a health worker, you are expected to ..... the duties and responsibilities of your job, with public information on the top.  
 a) undermine                      b) undertake                      c) underestimate                      d) underlie
10. The caregivers found some signs of hope after a minor dose-change caused a ..... drop in the patient's high fever.  
 a) reciprocal                      b) precautious                      c) proportionate                      d) recurrent
11. The world is becoming too small with the spread of technological ....., as if we were living in a small but global village.  
 a) abbreviations                      b) accomplishments                      c) aggravation                      d) alienation
12. Despite his doctor's prescription of daily intake, he kept taking aspirin on ..... days.  
 a) consecutive                      b) regular                      c) alternate                      d) successive
13. The patient ..... a bruise on his thigh and was taken to emergency room, but was soon treated and discharged.  
 a) supplied                      b) remained                      c) contained                      d) sustained
14. It is crucial for asthmatic patients to live in accommodations with satisfactory ..... through which sufficient fresh air flows.  
 a) ventilation                      b) inhibition                      c) palpitation                      d) occupation

15. The doctor realized that the patient was ..... because he was deliberately falsifying the symptoms of his illness.

- a) contesting                      b) revenging                      c) mourning                      d) malingering

16. An attempted suicide in which the individual ..... tries to harm himself herself is reportedly a common reason for poisoning.

- a) incidentally                      b) intentionally                      c) interchangeably                      d) accidentally

17. Research has indicated that 80 per cent of the loss of material from the surface of the teeth could be ..... to factors other than toothpastes.

- a) accustomed                      b) attached                      c) ascribed                      d) admitted

18. Mother-infant attachment should be..... by allowing a 'cuddle with the baby whenever possible.

- a) fostered                      b) hindered                      c) constricted                      d) refrained

19. Hospitalized patients who are ..... ill or are confined to bed for a long time may have special nutritional problems.

- a) eagerly                      b) critically                      c) intimately                      d) instantly

20. The patient's tone of speaking ..... his willingness to stop using the drug prescribed for his disease.

- a) immersed                      b) restored                      c) replenished                      d) implied

### Part two: Reading Comprehension

**Direction:** Read the passages carefully, and answer the following questions by choosing a, b, c, or d which best completes each item. Base your answers on the information given in the passage only.

#### Passage 1

The intricate relationship between the nerves and the muscles was first shown nearly 1800 years ago by Galen, who proved by experiments that destruction of a nerve paralyzed the muscle it supplied. He thought that the muscles were put to work by a spirit, contained in the nervous system, which passed from the nerves into the muscles concerned. We now know that when a nerve is stimulated, an electrical wave travels along it and causes the release of a chemical at the nerve endings. It is this chemical which stimulates muscular contraction. We also know that a normal muscle, even when resting, is in a state of slight tension, a local reflex action influenced by higher centers in the brain. To allow movement to occur, this tension must be increased in groups of muscles and diminished in others.

21. Galen showed .....

- a) in 1800 that the nerves were intricately detached  
b) muscle paralysis can be due to its nerve destruction  
c) the relationship between nerves and muscles is very simple  
d) that 1800 years ago the nerves were unusually separated

22. Galen believed that.....

- a) a spirit was put to work by the nerves in the nervous system  
b) the muscles containing the nervous system put the spirit to work  
c) a spirit in the nervous system caused the muscles to work  
d) the nerves worked with the help of a spirit at the nerve ending

23. Based on scientific information today, with nerve stimulation, .....

- a) an electrical wave is released in the chemicals  
b) some chemicals at the nerve ending contract the muscles  
c) a chemical at the nerve ending causes muscle production  
d) an electrical wave causes the nerve to be paralyzed in muscles

**24. According to the passage, all of the following sentences are true EXCEPT .....** .

- a) in order to be able to move, muscles are stimulated by the nervous system.
- b) there is now clear information on the relationship between nerves and muscles.
- c) muscles experience a significant amount of tension when they are still resting.
- d) normal muscles are fully free from tension in the state of relaxation.

**25. If we intend to have a movement, .....** .

- a) all muscles must become relaxed in the area to be moved
- b) chemicals should be diminished in nerve endings
- c) tension must be increased in some muscles and decreased in others
- d) a local reflex action is influenced and supported by muscles

### Passage 2

Dissociative identity disorder (DID), previously called multiple personality disorder, is a psychological condition in which a person's identity dissociates or fragments, thereby creating distinct independent identities within one individual. Each separate personality can be distinct from the other personalities in a number of ways, including posture, manner of moving, tone and pitch of voice, gestures, facial expressions, and use of language. Personalities can even differ in gender, with a biological female exhibiting male personalities and vice versa. What is more remarkable is that the alternate personalities, called "alters," may also have dissimilar physiological characteristics, displaying different allergies, right- or left side dominance, or vision, which could mean that one person may require multiple eyeglass prescriptions to accommodate the varying alters.

A person suffering from DID may have a large number of independent personalities or perhaps only two or three; the average number of alters for a DID patient is around ten. These alternate personalities tend to become fixed over time, and may negatively affect a person's life for years. At times, such people develop alters which may have a tendency to be aggressive, either toward people in the sufferer's environment or the other alters themselves.

**26. It is stated that people suffering from DID.....** .

- a) fail to exhibit the characteristics of the opposite gender
- b) are more independent than their normal counterparts
- c) fail to develop physiological characteristics
- d) possess at least two independent identities

**27. Posture, manner of moving, and gestures are mentioned in the passage as.....** .

- a) examples of abnormalities seen in those suffering from DID
- b) instances through which DID patients display their new identities
- c) specific characteristics that represent a person's true personality
- d) common features which differentiate people from one another

**28. It is stated that an allergy shaped in DID sufferers.....** .

- a) is more difficult to detect than that of a normal person
- b) can make them aggressive toward everybody nearby
- c) may depend on the new identity they develop
- d) is very likely to affect his medical condition over time

**29. The alternate personalities which DID sufferers develop .....** .

- a) might be beneficial to them
- b) can affect them adversely
- c) are temporary and disappear rapidly
- d) are environmentally determined

**30. The physiological characteristics which DID patients display .....** .

- a) get fixed in a short period of time
- b) make them more immune to disease
- c) may depend on their specific alter
- d) can be attributed to their early education

**Passage 3**

Due to the nature of a chronic disease, many women may have already tried complementary and alternative medications (CAM), perhaps feeling that modern medicine has disappointed them. A woman may be self-administering CAM when she first consults the midwife, in the mistaken belief that because they are natural they are safe. Whilst some interventions have some effectiveness, others require research before they can be recommended. In a tactful way, the midwife needs to explain that many complementary, homeopathic and herbal medicines have not been subject to research with adequate scientific rigor to ascertain if they are safe to use in pregnancy and, therefore, their continued use cannot be safely recommended. If the mother is firmly adherent to her beliefs in a product, then the midwife should seek additional advice from a pharmacist or doctor.

**31. The underlined pronoun “they” in the second sentence refers to .....**

- a) some interventions
- b) conventional medications and interventions
- c) complementary and alternative medications
- d) the mistaken beliefs

**32. According to the passage, women may use complementary medications because .....**

- a) conventional medicine might not have led to satisfactory results
- b) complementary medications have proved to yield satisfactory results
- c) they might have misunderstood the midwife's advice
- d) the midwife might have mistakenly prescribed a medicine

**33. According to the passage, a midwife may need to get advice from a pharmacist or doctor if the .....**

- a) pharmacist or doctor has enough information
- b) mother gets seriously ill
- c) mother does not like to stop using CAM
- d) mother does not use herbal medicine

**34. The text implies that the writer is ..... more investigations and studies on complementary and alternative medications.**

- a) in favor of
- b) opposed to
- c) uncertain about
- d) indifferent to

**35. Which of the following would be a suitable title for the above passage?**

- a) complementary therapy
- b) conventional medicine
- c) chronic diseases
- d) prescribed medication

**Passage 4**

The public health sector has been quick to embrace the use of text messaging. The main reason for this is ability for text messaging to reach a large segment of the population quickly at low cost. The use of messaging in this manner varies from monitoring the influenza rate in Madagascar to helping awareness about sexually transmitted diseases and sexual health. One of the great successes has been Text4Baby campaign. Expecting mothers text in their due date and receive important prenatal information and help in finding resources. The hope is that this will lead to healthier mothers and babies by mal expecting mothers aware of simple interventions that can be taken during pregnancy to decrease the risk adverse outcomes. Similarly, success has been seen in programs designed to help patients lose weight or smoking. In a randomized controlled trial, Free et al. evaluated the six-month abstinence rate of those to quit smoking with one group randomized to receive text messages and one group serving as the con They found that the text messaging group had an abstinence rate of double the control group (10.7 % 4.9%). Many other studies also demonstrate efficacy in using text messaging in smoking cessation. I demonstrating the efficacy of text messaging for weight loss is also on the rise but are less robust than smoking cessation.

**36. The above passage mainly discusses the role of text messaging in .....**

- a) influenza prevention
- b) pregnant mothers' care
- c) public health
- d) weight loss

37. According to the above passage, relevant information on ..... smoking cessation.

- a) text messaging for weight loss is more efficacious than that for
- b) text messaging for weight loss is less strong than that for
- c) efficacy of text messaging on weight loss is equal to that of
- d) text messaging is efficacious in neither weight loss nor

38. The writer mentions “influenza rate in Madagascar” in the above passage in order to .....

- a) give an example of an area where text messaging is used
- b) state that text messaging is quite different in this area
- c) show high rate of influenza in Madagascar
- d) exemplify an area where text messaging is impossible

39. The underlined phrase “this manner” in the third sentence refers to .....

- a) easy use of text messaging
- b) monitoring the influenza rate
- c) use of text messaging in health
- d) awareness about sexual health

40. According to the passage, .....

- a) text messaging cannot lead to healthier mothers
- b) Text4Baby has been developed for pregnant mothers
- c) research does not support text messaging for smoking
- d) Text4Baby is developed for mothers to lose weight

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

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