



6- E-health refers to health services and information through the Internet and related technologies.

- a. implicated b. refrained c. delivered d. enumerated

7- Glioblastoma remains one of the most cancers with a median survival of only 12 to 15 months for patients.

- a. devastating b. postponing c. restoring d. misleading

8- The of a high quality program needs the endeavor of the whole staff.

- a. connotation b. precaution c. implementation d. corporation

9- Efforts to preserve both plant populations and knowledge on how to use them for medicinal purposes are needed to traditional medicine.

- a. obtain b. remain c. sustain d. contain

10- There are some specialties within medicine which are closely anesthesia.

- a. affiliated to b. affronted by
c. administered to d. acquired by

11- The purpose of the recent studies was to the main cause of illiteracy in children.

- a. captivate b. extend c. conduct d. explore

12- Health education comprises opportunities for learning communication and life skills which are individual and community health.

- a. competent in b. conducive to
c. departed from d. deposited on

13- Health authorities will soon to discuss the problem of air pollution.

- a. confront b. convene c. circumvent d. restore

14- One of the most obvious features of the teacher-learner relationship is that it is formal, and therefore is by social and institutional roles.

- a. contradicted b. aggravated c. constrained d. replicated

15- The new study proved the between smoking and lung cancer.

- a. link b. loss c. loop d. joint

Part two: Reading comprehension

Passage 1

Scientists have examined a protein that enables people to modify their behavior to adjust to slightly changed experiences. When circumstances change and our usual route is blocked, our stored memories work no longer, and we must find alternative solutions. Behavioral flexibility is partially driven by protein synthesis, which produces changes in neural function. The researchers investigated the issue by focusing on PERK, an enzyme that regulates protein synthesis and modifies eIF2alpha required for proper protein synthesis.

The researchers conditioned both normal mice and mice without PERK, which heard an audible tone followed by a foot shock. Both groups froze out of fear when hearing the tone, anticipating the shock. The team then removed the shock from the procedure so that the mice only heard the tone. They observed that the normal mice did not freeze after hearing the tone anymore, whilst the mice lacking PERK continued to freeze. The team also conducted postmortem analyses of human brain samples from both schizophrenic and healthy individuals. They discovered that the healthy individuals' samples had normal levels of PERK, whilst those from schizophrenic patients had less protein. The author noted, “a list of neurological and neurodegenerative diseases, including Alzheimer’s, Parkinson’s, and Fragile X syndrome, have already been linked to aberrant protein synthesis. Results show the significance of PERK in maintaining behavioral flexibility and how its absence might be associated with schizophrenia. “

16- According to the text, some samples of the study came from people suffering from

- a. Fragile X
c. Alzheimer's
- b. Parkinson's
d. Schizophrenia

17- The mentioned study focused on a protein that enables people to manifest

- a. new behaviors in face of old experiences
- b. new behaviors in face of new experiences
- c. habitual behaviors when dealing with learned routes
- d. habitual behaviors when dealing with changed routes

18- This study showed that

- a. eIF2alpha is modified to produce PERK
- b. behavior flexibility is caused by a lack of PERK
- c. neurodegenerative patients suffer from a lack of eIF2alpha
- d. atypical protein synthesis is linked to behavior inflexibility

19- In the first experiment, the mice without PERK could not

- a. predict the foot shock after hearing the audible tone
- b. get conditioned due to a lack of the required enzyme
- c. give up the fear response even in the absence of the conditioning stimulus
- d. learn to associate the audible tone and the scary foot shock in the first place

20- The study focused on

- a. living mice, dead schizophrenic patients and living normal people
- b. living and dead mice, dead schizophrenic patients and living normal people
- c. living mice, dead schizophrenic patients and dead normal people
- d. living and dead mice, dead schizophrenic patients and dead normal people

Passage 2

In the past, doctors have always recommended a combination of diet and exercise to combat obesity. With the increase in the number of people who are overweight, however, this solution is increasingly being seen to be ineffective.

Because they see obesity as an illness, these authorities claim that treatment should involve not only diet and exercise but drugs as well. What they have in mind is not just a short course of medication to produce small degrees of weight loss. They want to prescribe long-term, perhaps lifetime, drug therapies, just as they might for high blood pressure or diabetes. Obesity's victims, these doctors hope, will not only be able to lose weight, but will also keep that weight off forever.

Not everyone in the medical community is satisfied with the new therapies. Conservatives are seriously worried that the new drugs are, in fact, merely placebos or worse, are actually detrimental to patients' health. Their concerns are understandable. A few decades ago patients using amphetamines became slimmer, but suffered from tension and irritability, higher pulse rates, and

sleepless nights, side effects that may have outweighed the medical benefits of lower body weight. Conservatives also point out that risky as amphetamines were, they were generally prescribed only for temporary use. Advocates of new drug treatments leave open the possibility that the medications will be prescribed for a lifetime.

21- Conservatives think new therapies

- a. may increase the mortality rate
- b. should undergo more refinements
- c. can simply have psychological benefits
- d. are less effective than diet and exercise

22- The use of new therapies is opposed to because of their

- | | |
|-----------------------|------------------|
| a. short-term effects | b. complications |
| c. ineffectiveness | d. temporary use |

23- Regarding the use of drugs for weight loss,

- a. there is controversy among authorities
- b. conservatives advocate the prolonged use of them
- c. most doctors prefer them with diet and exercise
- d. most officials have come to an agreement on their use

24- Diabetes and high blood pressure are compared with obesity because these disorders

- | | |
|--------------------------------|--|
| a. are due to obesity | b. need life-long use of drugs |
| c. are as prevalent as obesity | d. require the same treatment as obesity |

25- Regarding the information given, we conclude that

- a. obesity will be overcome in near future
- b. the new therapies will be adopted by most physicians
- c. safer ways are required to lose weight
- d. obesity will be the most common disorder worldwide

Passage 3

New research provides the strongest evidence to date that psychopathy is linked to specific structural abnormalities in the brain. Most violent crimes

are committed by a small group of persistent male offenders with anti-social personality disorder (ASPD). They are characterized by emotional instability, impulsivity and high levels of mood and anxiety disorders. They typically use aggression in a reactive way in response to a perceived threat or sense of frustration.

However, about one third of such men (ASP+P) are characterized by a lack of empathy and remorse, and use aggression in a planned way to secure what they want (status, money, etc.). There is a clear behavioral difference amongst those diagnosed with ASPD depending on whether or not they also have psychopathy. We describe those without psychopathy as 'hot-headed' and those with psychopathy as 'cold-hearted'. The 'cold-hearted' psychopathic group begin offending earlier, engage in a broader range and greater density of offending behavior and respond less well to treatment programs in adulthood, compared to the 'hot-headed' group. We now know that this behavioral difference corresponds to very specific structural brain abnormalities which underpin psychopathic behavior, such as profound deficits in empathizing with the distress of others.

26- The evidence demonstrates that the mentioned disorder is

- a. more prevalent among males
- b. an abnormality calling for hard evidence
- c. the malady brought about by offenders
- d. the most common affliction physicians face

27- The disorder discussed in the text

- a. makes the afflicted function more perceptively
- b. afflicts most persons in the society
- c. may suppress the sense of frustration
- d. accounts for most violent offenses

28- The psychopathic patients usually lack

- a. impulsivity
- b. aggression
- c. empathy
- d. frustration

29- It is implied that the 'cold-hearted' patients

- a. would show more offensive behavior to the treatment conducted before their adulthood
- b. would respond more positively to the treatment if treated during childhood or adolescence
- c. tend to exhibit less offensive behavior following the transition to adulthood
- d. can be treated satisfactorily provided a definite program is already designed

30- The specific structural brain abnormalities

- a. account for showing empathy with distressed people
- b. typically influence mood more than behavior
- c. underlie the excessive aggressive behavior
- d. profoundly lead to opposing empathic people

Passage 4

As for the runny nose that accompanies cold, we don't yet know if it benefits us or viruses, but we certainly need to know in order to decide if nose sprays will help or harm us. Much of clinical medicine relieves people's discomfort by blocking defenses like fever, pain, nausea and diarrhea. How can this be safe? Just as smoke detectors are designed to give many annoying but inexpensive false alarms so that they are sure to warn about any actual fire, the mechanisms that regulate the body's defenses have evolved to express defenses whenever they are possibly helpful, thus causing much unnecessary suffering. Infections are neither a divine punishment nor an arbitrary failing, but merely a contest between our bodies and smaller organisms that want to eat us. Because these viruses and bacteria reproduce so rapidly, they evolve faster than we can, so we cannot escape them. We can and do, however, evolve weapons of even more subtle destruction. They, in turn, evolve even more sophisticated ways to escape our defenses. Is evolution moving toward some happy accommodations? Not at all.

31- The author is the usefulness of nose sprays.

- | | |
|--------------------|-----------------------|
| a. confident about | b. indifferent toward |
| c. skeptical about | d. conscious of |

32- According to the author, fever, pain, etc. are

- a. some sorts of defense mechanisms
- b. caused by body's defense failure
- c. warning signs of the malfunction of the defense system
- d. diminished when the optimum result is not achieved

33- Smoke detectors are compared with

- a. false alarms
- b. bodily discomforts
- c. body's defenses
- d. bacterial infections

34- The warnings by smoke detectors are said to be

- a. exact and valuable
- b. bothering and worthless
- c. beneficial though sometimes troublesome
- d. misleading and ending in annoyance

35- According to this passage, our body is able to evolve defense mechanisms against bacteria and viruses;

- a. thus, we should not be worried about microorganisms
- b. therefore, our body is able to escape diseases
- c. thus, the evolution of the microorganisms will be blocked
- d. nevertheless, it doesn't mean that we are immune to diseases

Passage 5

Epidemiological trends show populations across Europe and beyond becoming less healthy as 'diseases of comfort' (e. g. chronic diseases caused by an obesogenic environment) due to technological advance grow at an alarming rate, manifesting themselves as major public health problems in this century. A sharp rise in childhood obesity, resulting in an increase in health-related diseases such as diabetes, is matched by rapid increases in alcohol-related diseases and in sexually transmitted infections. In addition, infectious diseases have not disappeared and pandemics such as Avian bird flu threaten

to occur at any time. As if these public health challenges were not enough, there are also the threats arising from a range of diverse concerns like toxic environments and bioterrorism.

36- According to the passage, an obesogenic environment have worsened the health condition of European people.

- a. scientific advances stemming from
- b. maladies induced by
- c. epidemiological trends preceding
- d. health challenges leading to

37- A common feature in childhood obesity and sexually transmitted diseases is their

- a. rapid spread
- b. comfort-seeking trait
- c. deterioration of health
- d. high acuity

38- In an obesogenic setting, people tend to

- a. put up weight
- b. ignore technological advance
- c. challenge obesity
- d. contract alcohol-related diseases

39- Avian bird flu mentioned in the passage is an example of

- a. regional diseases
- b. epidemiological trends
- c. global diseases
- d. diseases of comfort

40- Toxic environments and bioterrorism are referred to as diseases of comfort.

- a. recent alternatives for
- b. current counterparts of
- c. further threats besides
- d. definitive varieties of