

■ 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, or d). Base your answers on the information given in the passage only.

Passage 1

Although cholesterol has **received a lot of bad press** in recent years, it is a necessary substance in the body. It is found in bile salts needed for digestion of fats, in hormones, and in the cell's plasma membrane. However, high levels of cholesterol in the blood have been associated with atherosclerosis and heart disease. It now appears that the total amount of blood cholesterol is not as important as the form in which it occurs. Cholesterol is transported in the blood in combination with other lipids and with protein, forming compounds called lipoproteins. These compounds are distinguished by their relative density. High-density lipoprotein (HDL) is composed of a high proportion of protein and relatively little cholesterol. HDLs remove cholesterol from the tissues, including the arterial walls, and carry it back to the liver for reuse or disposal. In contrast, low-density lipoprotein (LDL) contains less protein and a higher proportion of cholesterol. LDLs carry cholesterol from the liver to the tissues, making it available for membrane or hormone synthesis. However, excess LDLs can **deposit** cholesterol along the lining of the arterial walls. Thus, high levels of HDLs indicate efficient removal of arterial plaques, whereas high levels of LDLs suggest that arteries will become clogged.

121. According to the passage..... .

- a) different forms of cholesterol in the body have similar features
- b) cholesterol density fails to indicate how healthy an individual is
- c) cholesterol is not so significant in maintaining personal health
- d) the form of cholesterol is more important than its amount

122. The phrase **received a lot of bad press** in the first line means to

- a) be criticized in mass media
- b) present unwelcome consequences
- c) include pressure over time
- d) indicate undesirable effects

123. Which of the following statements is **TRUE** based on the passage?

- a) Atherosclerosis is associated with HDLs as opposed to LDLs.
- b) Cholesterol is carried in the blood in two forms, namely HDL and LDL.
- c) Thickening of the arterial wall results mainly from high levels of HDLs.
- d) The proportion of cholesterol is higher in HDLs compared with LDLs.

124. The word **deposit** in line 11 is closest in meaning to

- a) stimulate
- b) assimilate
- c) accumulate
- d) postulate

125. According to the passage, is **NOT** associated with high HDL levels.

- a) reducing arterial plaques
- b) clogging arteries with cholesterol
- c) carrying cholesterol to the liver
- d) removing cholesterol from the tissues

Passage 2

The Internet greatly influences people's attitudes about their health and health care. They can search almost any topic of interest and become researchers for their own problems. In the present busy world, doctors do not always take the time to explain illnesses and possible remedies to their patients; they may not give scientific details in simple words, either. Accordingly, many people use Internet resources to find what they need to know for better medical decisions. But are the recommendations of "experts" on the Net always accurate and reliable? Are they helpful to everyone that needs advice on a specific medical condition? The online health products or information that seem most wonderful are often the most **fraudulent**.

Many specialists have their own theories about illness and health. For example, a California physiologist stated two causes for diseases: (1) pollution of the environment, and (2) parasites inside the human body. She offers two kinds of health products on the Internet: electronic machines and herbal medicine which clean out the body (free it of parasites) and rebuild new healthy living cells. Moreover, there are medical experts who recommend kinds of natural, non-western remedies for modern health disorders. Their advice might include special diet plans with added vitamins and minerals, folk medicine, environmental changes, or unusual therapies that patients do not get from typical doctors.

126- The California physiologist believes that one of the main reasons of diseases is

- a) living things in the environment
- b) parasites in the environment
- c) environmental pollution
- d) animals and plants

127- The word **fraudulent** in paragraph 1 is closest in meaning to

- a) available
- b) dishonest
- c) significant
- d) attractive

128- It is stated in the passage that a reason for the patients' use of the Internet to know more about their diseases is that

- a) they can find information on the Internet which is more culturally appropriate
- b) they can use Internet resources to make the best decision at a reasonable price
- c) doctors use a technical language to explain their problems
- d) doctors fail to take enough time to examine their patients completely

129- The word they in paragraph 1 refers to

- a) some medical decisions made by the doctors who use the Internet
- b) medical suggestions of the experts on the Internet
- c) some experts on the Internet
- d) the online health products

130- The medical experts favoring natural remedies suggest all of the following interventions, **EXCEPT**

- a) unconventional therapies
- b) rebuilding new living cells
- c) added vitamins and minerals
- d) changing the patient's place of living

Passage 3

Ultraviolet (UV) radiation covers the wavelength range of 100–400 nm, which is a higher frequency and lower wavelength than visible light. UV radiation comes naturally from the Sun, but it can also be created by artificial sources used in industry, commerce, and recreation. The UV region covers the wavelength range 100-400 nm and is divided into three bands: UVA (315-400 nm), UVB (280-315 nm), and UVC (100-280 nm).

As sunlight passes through the atmosphere, all UVC and approximately 90% of UVB radiation is absorbed by ozone, water vapor, oxygen and carbon dioxide. UVA radiation is less affected by the atmosphere. Therefore, the UV radiation reaching the Earth's surface is largely composed of UVA with a small UVB component.

The amount of UV radiation from the Sun that hits the Earth's surface depends on several factors, including the Sun's height in the sky, latitude, cloud cover, altitude, the thickness of the ozone layer and ground reflection. Reductions in the ozone layer due to human-created pollution increase the amount of UVA and UVB that reaches the surface. This can impact human health, animals, marine organisms and plant life. In humans, increased UV exposure can cause skin cancers, cataracts, and immune system damage.

131_ According to the passage, excessive exposure to UV is unlikely to cause

- a) cataract
- b) skin tumors
- c) immune disorders
- d) digestive disorders

132_ It is stated in the passage that the visible light the Ultraviolet (UV) radiation.

- a) falls below the wavelength range of
- b) falls within the same wavelength as
- c) has a higher frequency than
- d) contains all wavelength ranges of

133_ Which of the following factors does NOT affect the amount of UV radiation that hits the Earth's surface?

- a) height above the sea level
- b) cloud cover of the area
- c) marine organisms and plant life
- d) ground reflection of the rays

134_ It is stated in the passage that the UV radiation which reaches the Earth's surface is mostly composed of

- a) UVA with a small UVB component
- b) UVB and large amounts of UVC
- c) equal amounts of UVC and UVA
- d) UVA, UVB and UVC altogether

135_ The underlined word this refers to

- a) the amount of UV radiation
- b) Ozone layer
- c) an increase in the amount of UVA and UVB
- d) an increase in the amount of human-related pollution

Passage 4

In the summer of 1976, a mysterious epidemic suddenly attacked two central African towns and killed the majority of its victims. Medical researchers suspected the deadly Marburg virus to be the cause, but what they saw in microscope images was entirely a new pathogen which would be named after the nearby Ebola River. Like Yellow fever and Dengue, the disease caused by Ebola virus is a severe type of hemorrhagic fever. It begins by attacking the immune system cells and neutralizing its responses, allowing the virus to multiply. Starting anywhere from 2 to 20 days after contraction, initial symptoms like high temperature, aching, and sore throat resemble those of a typical flu, but quickly increase to vomiting, rashes, and diarrhea, and as the virus spreads, it invades the lymph nodes and vital organs such as the kidney and liver, causing them to lose function. But the virus itself is not what kills Ebola victims. Instead, the mounting cell deaths trigger the immune system overload, known as cytokine storm, an explosion of immune responses that damage blood vessels causing both internal and external bleeding. The excessive fluid loss and resulting complications can be fatal within 6 to 16 days of the first symptoms; however, proper care and rehydration therapy can significantly reduce mortality rates in patients.

136_ The cytokine storm is

- a) a type of external bleeding
- b) an explosion in the blood vessels
- c) the consequence of increased cell deaths
- d) the damage recovered by the immune system

137_ According to this paragraph, Ebola

- a) is easily distinguished from the flu in its initial stages
- b) presents with symptoms like typical flu in the early stages
- c) has symptoms like the typical flu as the disease progresses
- d) is another name for Dengue, as used in medical context by clinicians

138_ Bleeding in Ebola could be attributed to

- a) the fever resembling Dengue and Yellow fever
- b) deadly Marburg virus as a new pathogen
- c) increased immune system response
- d) vomiting due to the disease

139_ The Ebola virus increases through

- a) the kidney and liver
- b) the internal and external bleeding
- c) counteracting the immune system responses
- d) invading the lymph nodes and other organs

140_ The death rate following Ebola disease

- a) is definitely predictable depending on the affected area
- b) is highly increased in the first few days of contraction
- c) fails to be controlled under the current circumstances
- d) could be controlled through proper care and therapy

■ Part two: Vocabulary

Directions: Complete the following sentences by choosing the best answer.

141. Health problems of the poor people can only be through proper strategies and measures taken by the government.
 a) exaggerated b) enhanced c) complicated d) alleviated
142. Regular sleep, eating patterns, and exercise help people the bad effects of stress.
 a) intensify b) counteract c) prolong d) imitate
143. In order not to involve your personal attitudes in the results, you need to be when doing research.
 a) disoriented b) ignorant c) impartial d) biased
144. University lecturers have the main role in knowledge in all fields to the students.
 a) imparting b) announcing c) degrading d) consuming
145. Although scientists have detected many secrets of the central nervous system, there are still some points which need to be clarified.
 a) transparent b) obvious c) evident d) obscure
146. While taking your exam, you need to block thoughts by concentrating on what you are doing.
 a) constructive b) intrusive c) supportive d) inspiring
147. He was not able to cope with the stress and of his job; therefore, he decided to retire.
 a) comfort b) recreation c) strain d) tranquility
148. The health authorities have emphasized that priority should be given to the which help the improvement of health in the country.
 a) initiatives b) compartments c) obstacles d) redundancies
149. Some people think that the most essential for good managers is their organizational abilities.
 a) associate b) complication c) repression d) attribute
150. Some bacteria are not responsive to antibiotic therapy because they have gradually developed to antibiotics.
 a) existence b) assistance c) resistance d) prevalence

- 151_ The lecturer was asked to steer the discussion back to the topic of main importance by avoiding unrelated issues.
 a) superficial b) original c) trivial d) redundant
- 152_ The health providers are forced to answer any the patients have about their treatment.
 a) queries b) intimacies c) contributions d) modifications
- 153_ The student received a lot of comments from his supervisor helping him improve the quality of his work.
 a) disruptive b) constructive c) disappointing d) debilitating
- 154_ The instructor advised students to avoid by strictly following note-taking standards.
 a) frankness b) truthfulness c) plagiarism d) precision
- 155_ The Corona virus is a dangerous, highly viral infection that can easily spread to other people.
 a) transmissible b) dismissible c) ignorable d) valuable
- 156_ Numerous theories have been on the exact cause of Corona virus which is yet to be identified.
 a) abandoned b) avoided c) proposed d) oppressed
- 157_ Prevention rather than treatment must be the first of all those involved in health.
 a) census b) concern c) burden d) invention
- 158_ With simple measures, the side effects of the lesions under the skin can be reduced.
 a) threatening b) destructive c) preventive d) obsessive
- 159_ A damaging decline in blood products can cause huge when caring for pregnant women with pre-existing medical conditions.
 a) contributions b) profits c) opportunities d) challenges
- 160_ We can keep away from infectious diseases by enhancing our disease-causing microorganisms.
 a) resistance to b) assistance to c) combination of d) contraction of