The brain of the average human weighs approximately 14 kilograms and consists of three main parts - the cerebrum, the cerebellum, and the brain stem. The cerebrum is by far the largest of the three parts, taking up 85% of the brain by weight. The outside layer of the cerebrum, the cerebral cortex, is a grooved and bumpy surface covering the nerve cells beneath. The various sections of the cerebrum are the sensory cortex, which is responsible for receiving and decoding sensory messages from the body; the motor cortex, which sends action instructions to the skeletal muscles; and the association cortex, which receives, monitors, and processes information. It is in the association cortex that the processes that allow humans to think takes place. The cerebellum, located below the cerebrum in the back part of the skull, is the section of the brain that controls balance and posture. The brain stem controls various body processes such as breathing and heartbeat.

1. The main purpose of this passage is to __________.
   a) describe the functions of the parts of the brain  
   b) explain how the brain processes information  
   c) demonstrate the physical composition of the brain  
   d) give examples of human body functions

2. The passage states that the most massive part of the brain is the ________.
   a) cerebrum  
   b) cerebellum  
   c) cerebral cortex  
   d) brain stem

3. According to the passage, which part of the brain deals with information?
   a) The sensory cortex  
   b) The association cortex  
   c) The cerebellum  
   d) The brain stem
4. The association cortex ____________.
   a) senses that messages should be sent out to the muscles
   b) provides a surface covering for nerve cells
   c) receives and processes information from the senses
   d) is where the human process of thinking occurs

5. Which of the following is TRUE about the cerebellum?
   a) It is located above the cerebrum.
   b) It controls breathing.
   c) It is responsible for balance.
   d) It is outside layer of the cerebrum.
PART 2 (5x2=10 points)

Read the text and decide if the following statements are TRUE or FALSE.

THE ISLAND PRINTS DOLLARS

Salt Spring Island forms parts of the province of British Columbia, Canada. It is a heaven for tourists who go there for the outdoor sports, wildlife and tranquility. Each year, the Island receives twice as many visitors as it has residents. This peaceful retreat has done something unusual recently, though, and has issued its own local currency. It is the first local currency which is supported fully by a national currency. The Island is habited by about 10,000 citizens and boasts a wide diversity of people, such as artists, poets, authors, musicians, actors, inspirational thinkers, activists, creative entrepreneurs and humanitarians. One of the reasons a local ‘Salt Spring Island’ dollar was introduced was to encourage people to spend their money on the Island and to put money back into the community. The dollar notes were designed beautifully by local artists, and they are printed on the Island whenever it is needed. The notes are available in 1, 2 and 5 dollars and can be exchanged for Canadian dollars. Local traders are happy to accept the Salt Spring money. So far 17,000 dollars have been issued, and the equivalent Canadian dollars have been placed in a reserve, which is gathering interest. Ninety-five percent of the businesses on the Island take them. The scheme is supported by the Island’s Credit Union, the Chamber of Commerce and two major banks. Soon the notes will be dispensed at bank crash machines. Shortly 10 dollars and 20 dollars bills will be printed. Tourists to the Island like to keep the notes as souvenirs. The two-dollar bill carries a picture of the ocean floor and the five-dollar bill is decorated with pictures of killer whales. The latest anti-counterfeiting techniques are used to protect the currency.

6. Tourists are scarcely keen on the Island’s new currency. T / F

7. Canadian dollars are worth more than Salt Spring dollars. T / F

8. This was the first scheme of its kind anywhere in the world. T / F

9. The Canadian government is opposed to the Salt Spring Islanders’ decision. T / F

10. Tourists sometimes retain the local currency as keepsakes. T / F
In early years of this century, there was little specialization in surgery, i.e. cutting into a part of the body. A good surgeon was capable of performing almost every operation that had been devised up to that time. Today, the situation is different. Operations that were not even dreamed of fifty years ago are now being carried out. The heart can be safely opened and its valves repaired. ‘clogged’ blood vessels can be cleaned out, and broken ones mended or replaced. A lung, the whole stomach, or even part of the brain can be removed and still allow the patient to live a comfortable and satisfactory life. However, not every surgeon wants to, or is qualified to carry out every type of modern operation. The boundaries of surgery have widened remarkably in this century. Its safety has increased too. Deaths from most operations are about 23% of what ‘they’ were in 1910 and surgery gas extended in many directions, for example to certain types of birth defects in newborn babies and, at the other end of the scale, to life saving operations for old people. The hospital stay after surgery has been shortened to as little as a week for most major operations. Most patients are out of bed the day after an operation and may be back at work in two or three weeks.

11. Surgeons in the early years of this century......
   a) could perform every operation known today
   b) were less specialized than the modern ones
   c) had to specialize more than the modern ones
   d) were able to carry out heart operations

12. Which of the following is true?
   a) In modern surgery all types of operations can be carried out by any surgeon.
   b) Open heart surgery has been possible since the decrease in deaths from operations.
   c) Even the removal of a major organ doesn’t prevent the patient from leading a healthy life today.
   d) Today only one fourth of all patients who have operations recover.

13. The second paragraph is mainly about........
   a) the improvements in modern surgery.
   b) the importance of hospital stay after surgery.
   c) the percentage of operations in this century.
   d) the operations of the past and today.

14. In line 10, ‘they’ refers to.....
   a) the boundaries of surgery
   b) deaths after operations
   c) directions in operations
   d) most modern operations

15. In line 5, ‘clogged’ might mean........
   a) replaced
   b) broken
   c) removed
   d) blocked
LISTENING

PART 1 (3 X 5 = 15)

Listen and decide if the statements are true or false.

CORRECT THE FALSE ONES.

1. The Greek philosopher Plato first brought the story of Atlantis from Egypt. T / F

2. After a tidal wave, the island started to sink to the bottom of the ocean day by day. T / F

3. There were some other students of Plato claiming it as the illustration of one of his inventions. T / F

4. Apart from Plato’s, there were quite a few writings about Atlantis for thousands of years. T / F

5. Plato described the island in details in two of his dialogues. T / F
PART 2 (2X5=10 pts)

Circle the best answer.

5. It is not only scientific groups studying the effects of pollution but also _____.
   a) states prepare new legislation against it
   b) private laboratories make experiments, too
   c) exposure levels are important
   d) household products come with instructions about safe use

6. Regulation of man-made pollution can be enabled only by _____.
   a) legislation b) restrictive acts c) reducing smoking d) prevention of fume without filters

7. In terms of pollution, vehicles are checked by some countries and _____.
   a. besides, of all kinds of pollutants smoke is the most dangerous
   b. others and local organizations take part in protecting the environment
   c. while home and work environments should be checked for adequate air flow
   d. although personal exposure should be monitored and limited wherever possible

9. Home and work environments should be checked for proper exhaust systems _____.
   a) in addition to preventing outdoor pollution
   b) because we feel tired and tense in a polluted environment
   c) to stop, at least reduce the pollution
   d) as dirty air in the room causes cancer

10. Newly bought household products contain instructions for safety, but _____.
    a) it is the efforts of all scientists that help save the environment
    b) all of us should play an important role in this
    c) people should take care of their environment
    d) building stuff should also be strengthened against effects of pollution
WRITING

PART 1 (25 pts)

Choose ONE of the topics and write a well organized composition.

1. In big cities the rate of crime has increased. Write your opinions about crime. You can include the following points.

   * Do you think parents are responsible for the crimes their children commit?
   * Why is the rate of crimes higher in big cities than small towns?
   * What do you think of death penalty?

2. Many parts of the world are losing important natural resources, such as forests, animals, or clean water. Choose one resource that is disappearing and explain why it needs to be saved. Use specific reasons and examples to support your opinion.
LISTENING I

CONTROLLING AIR POLLUTION
In many countries, steps are being taken to stop the damage to our environment from air pollution. Scientific groups study the damaging effects of pollution on plant, animal and human life and countries write laws to control pollution. Educators in schools and universities teach students, beginning at very young ages, about the effects of air pollution. The first step to solving air pollution is to determine how much exposure to pollutants is harmful. Once exposure levels have been set, steps can be undertaken to reduce exposure to air pollution. These can only be accomplished by regulation of man-made pollution through laws. Many countries have set controls on pollution emissions for transportation vehicles and industry. Many state and local organizations also participate in monitoring the natural environment. Adequate exhaust systems is also a key to controlling exposure to indoor air pollution. In addition, it is possible to prevent many types of pollution. In many countries, most household products come with instructions about safe use, which is not enough. Building materials should also be reviewed for potential harmful effects against nature.

LISTENING II

THE MYSTERY OF ATLANTIS

It all started with the Greek philosopher, Plato. About 347 BC in two of his famous dialogues, Plato described a wealthy continent inhabited by people of great learning and culture. This continent, or island, was located beyond the “Pillars of Hercules”, which today we know as the Straits of Gibraltar. One day in 960 BC, according to Plato, a volcanic explosion and a huge tidal wave destroyed the island. Overnight it sank to the bottom of the ocean. Only a few people escaped. The name that Plato used in his dialogues for this island was Atlantis. The story of the lost continent, as it is often called, was one told by a Greek statesman named Solon. He had heard of the island during a trip to Egypt in the sixth century BC and he found out all he could about it. What Plato wrote two centuries later was based on Solon’s findings. For thousands of years Plato’s story of Atlantis was the only one; no one else wrote about it. The two dialogues were full of descriptive details about the island and many of Plato’s Greek fellows were convinced the story was true. Others, however, including Plato’s famous pupil, Aristotle, were not convinced. They did not go along with Plato but said it was an invention he used to illustrate his philosophy. Plato insisted that his account of Atlantis was completely true.
Reading

PART 1
1. A
2. A
3. B
4. D
5. C

PART 2

6. F
7. F
8. T
9. F
10. T

Part 3

11. B
12. D
13. A
14. B
15. D

LISTENING

PART 1

PART 1
1. F (Solon heard of the island during his trip to Egypt)
2. F (overnight)
3. T
4. F (No one else wrote about it)
5. T

PART 2

6. A
7. A
8. B
9. C
10. D