

hearing loss → از دست دادن شنوایی
modifies → تغییر دادن

BATS

خفاش

پستاندار

پرواز کردن

contrast
تضاد

به طور کلی

فعال در روز

The bat is the only mammal that flies. Unlike birds, which are generally diurnal, bats are nocturnal and fly at night. They have very good hearing but poor eyesight. They cannot see well in the dark. They can see objects which are very near them but they cannot see distant objects. They can see moving objects but not stationary ones.

شبانه

object
مستتر کردن

استیاء دور

= way = route
مسیر

تابت - سالن

برای اینکه

In order to avoid objects in their path, they use a type of radar system. They emit ultra-sonic sounds and are able to hear the echoes of these sounds. Their radar system

enables them to know the position of the objects in their path and to avoid objects at night. They can estimate the distance of an object by using the sound echoes that

bounce back to them. So, while bats may travel in total darkness, they "see" using sound. They are able to fly at great speed but are unable to walk fast on the ground.

animals
حیوانات

These creatures can be found in many parts of the world. Bats live in cities, deserts, grasslands and forests. There are over one thousand two hundred bat species. Many people think bats are blind, but this is not true.

Post-reading Activities

True/False Items

Based on the foregoing text decide whether the following statements are true (T) or false (F).

-F.... 1. Bats cannot avoid objects in their path = way = route
....T.... 2. Bats are able to hear the echoes of the sounds they emit.
....F.... 3. Bats are not able to see the objects whether distant from or near to them.

adapt → سازگار شدن

سازگار

مربوط به - درجہ

....T....4. Concerning the place they live, bats are adaptable animals.

....F....5. It's commonly known that many bat species have very good eyesight.

....T....6. "Estimate" in this passage means "guess". *estimate = guess*

.....7. "While" in the last sentence shows a type of logical relationship which is called "consequence". *outcome - result* منطقی
عواقب

....F....8. We can infer from the text that bats cannot find their ways at all in total darkness.

....T....9. "Species" in the last line of the passage means types.

Comprehension check questions

Answer the following questions by choosing the correct answer from the options provided.

1. According to the passage, all of the following are features of the bats EXCEPT:
ویژگی
 - a. good hearing sense
 - b. inability to see the distant objects ✓
 - c. using a type of radar system

- d. flying at great speed
2. Bats emit ultra-sonic sounds in order to -----.
- ☐ a. see objects which are very near to them
 - ☒ b. hear the echoes of these sounds
 - ☒ c. locate the position of the objects
 - ☐ d. walk fast on the ground
3. Bats are adaptable mammals since -----.
- ☒ a. they can be found in many parts of the world
 - ☐ b. there are over one thousand two hundred bat species
 - ☐ c. they are able to fly at great speed
 - ☐ d. there is a possibility for them to use ultra-sonic sounds
4. Which statement shows a fact regarding the bats?
- ☐ a. Bats are blind and cannot see at all.
 - ☐ b. They avoid objects at night since they are nocturnal.
 - ☒ c. The stationary objects are generally not seen by the bats.
 - ☐ d. At night bats can walk fast on the ground.
5. The underlined 'them' in the second paragraph refers to -----.
- a. objects ☒ b. bats c. echoes d. paths

Language Practice

Choose the best answer for the blank spaces.

1. برگ ها Leaves or flowers that open in daylight and close at night are called -----.
- ثابت a. stationary شبانه b. nocturnal روزانه c. diurnal متحرک d. moving
- 2/3. When we see the light of very -----2----- objects in the universe, we are actually seeing light -----3----- from them a long time ago.
2. a. near ☒ b. distant c. great d. stationary

3. a. avoided ^{تَمَيَّنَ} b. estimated ^{مَنَسَّرَ} c. emitted ^{يَافَى} d. found
4. We should think of a conservation area to protect endangered -----.
 a. objects ^{مَاقَلَاتِ} b. deserts ^{بَيَان} c. species ^{رِوَال} d. echoes
5. The total number of the places where bats can leave has been -----
 differently. ^{تَرَكَ}
- a. estimated b. emitted c. created d. bounced

Unit 4

Pre-reading Activities

1. Where does mercury contamination come from? ^{جَيَوَهَاقِي} ^{الْوَدِّي} pollution factory -
2. Should we be concerned about mercury in fish? ^{تَلَرَانِ بَوْدَن} we should

Mercury Contamination

^{جَيَوَه}

^{الْوَدِّي}



lately $\rightarrow$ لَا تِلْكَ

modify $\rightarrow$ miss

Human industrial activities such as coal-fired electricity generation, smelting and incineration of waste, increase the amount of airborne mercury which eventually finds its way into lakes, rivers and oceans where it is gobbled up by unsuspecting fish and other marine life.

Recently, mercury in the fish is a big problem all over the world. Although fish has always been recognized as an excellent source of protein, the risk of mercury contamination has thrown some of its nutritional benefits into question. In fact, mercury contamination of fish is a definite concern for all individuals, and

particularly ^{بویژه} for women considering pregnancy, pregnant women, and children. Once ^{زمانی که} = when this mercury gets into the ^{دریا} marine food chain, it "bioaccumulates" in the larger ^{شکارچیان} predators. That's why larger fish are generally riskier to eat than smaller ones. ✓

Those of us who eat too much mercury-laden fish can suffer from a range of health maladies including reproductive troubles and nervous system disorders. The U.S.

Environmental Protection Agency (EPA) reports that human fetuses that are exposed to mercury may be at an increased risk of poor performance on neurobehavioral

32 laden = full of

thin = subtle

وظیفه

tasks, such as fine motor function, language skills, visual-spatial abilities and verbal memory.

عملکرد حرکتی ظریف

توانایی زبانی

توانایی‌های سمعی-بصری

زبانی

حافظه

Post-reading Activities

A) True/False Items

Based on the foregoing text decide whether the following statements are true (T) or false (F).

- f ~~f~~..... 1. In industrial activities, the increase of mercury contaminates water before the air. منفی
- f ~~f~~..... 2. According to the passage, mercury can only be eaten by wild fish and other sea animals.
- T ~~f~~..... 3. Pregnant women and children are more at risk of mercury contamination than others.
- f ~~f~~..... 4. Mercury contamination of fish is not related to the size of fish.
- f ~~f~~..... 5. According to the passage, exposure to mercury may affect pregnant women's language skills. قرار گرفتن در معرض بیماری

B) Comprehension check questions

Answer the following questions by choosing the correct answer from the options provided.

افزایش برده

1. All of the following are discussed in this passage Except:
- industrial activities that enhance mercury contamination
 - where mercury contamination comes from

منفعت

- c. the benefits of the human industry in the world ✓
d. how we can prevent mercury contamination

برداشت کردن

2. It can be inferred from the first paragraph that

- a. people throw a large number of mercury in water
b. mercury moves from the air to water due to human industrial activities
c. people throw the waste materials in water
d. people throw the industrial materials in water

اندازش
پرتاب کردن

3. According to the passage, **mercury contamination** is an/a..... issue in our life.

نگرانی

مسئله problem

ناخیز - بی اهمیت

a. trivial

b. critical بحرانی

c. satisfying

d. preventable قابل پیشگیری

خرابی
رضایت بخش

4. In the last paragraph, "mercury-laden fish" means fishmercury.

حمل کردن

a. carrying

تولید

b. producing

c. suffering from

d. reproducing

زنجیر کردن

در حال تولید مثل

جیس

5. It can be inferred from the last paragraph that human fetuses that are exposed to mercury may not be able to....

a. speak

b. walk

c. see

d. all the above

C) Language Practice

Choose the best answer for the blank spaces.

توصیه کرد
مقتضای نظر کرد

1. The nutritionist advised him not tofood since he may take in too many calories by eating quickly.

درافتن

- ا. بوئین b. سوزاندن c. مثل ناو خوران d. مصرف کردن
- a. smell b. incinerate c. gobble d. consume
2. biologists are concerned about the effects of untreated sewage that is flowing into coastal waters.
- a. Reproductive b. Veteran c. Marine d. Environmental
3. The patient is conscious and comfortable. There has already been a/animprovement in her condition.
- a. definite b. inconstant c. unsuspecting d. inconsiderable
4. The doctor told me that my old bed could be the most likely cause of back
- a. trouble b. risk c. performance d. function
5. The fish have to be protected from whales and other
- a. generations b. fetuses c. individuals d. predators

Post-reading Activities

Sources of energy

¹The fuels of the body are carbohydrates, fats and proteins. ²These are taken in the diet. ³They are found mainly in cereal grains, vegetable oils, meat, fish, and dairy products.

⁴Carbohydrates are the principal source of energy in most diets. ⁵They are absorbed into the bloodstream in the form of glucose. ⁶Glucose not needed for the immediate use is converted into glycogen and stored in the liver. ⁷When the blood sugar concentration goes down, the liver reconverts some of its stored glycogen into glucose.

⁸Fats make up the second largest source of energy in most diets. ⁹They are stored in adipose tissue and round the principal internal organs. ¹⁰If excess carbohydrate is taken in, this can be converted into fat and stored. ¹¹The stored fat is utilized when the liver is empty of glycogen.

excrete → دفع کردن = throw out
excretion → دفع

in fact
in fact

¹²Proteins are essential for the growth and rebuilding of tissue. ¹³^{but}However, they can, in addition, be utilized as a source of energy. ¹⁴Indeed, in some diets, such as the diet of the Eskimo, they form the main source of energy. ¹⁵Proteins are first broken down into amino acids. ¹⁶Then they are absorbed into the blood and pass round the body. ¹⁷Amino acids not used by the body are eventually ^{درنهایت} excreted in the urine in the form of urea. ¹⁸Therefore, proteins, unlike ⁼ carbohydrates and fats, cannot be stored for future use. ^{فقط}

A) Based on the foregoing text decide whether the following statements are true (T) or false (F).

1.**T**.... The fuels of the body are taken in the diet.
2.**F**.... Carbohydrates, fats and proteins are found only in cereal grains, vegetable oils, meat, fish and dairy products.
3.**T**.... Carbohydrates are found in the liver as glycogen.
4.**F**.... Proteins are the main source of energy in most diets.
5. **F**..... Amino acids which are not absorbed into the blood are excreted in the urine in the form of urea.
6.**F**.... Carbohydrates and fats cannot be stored for future use.

B) Answer the following questions by choosing the correct answer from the options provided.

1. In general, the most important source of energy in most diets is.....
 - a. fats
 - ☒ b. carbohydrates
 - c. proteins
 - d. none of the above
2. It can be inferred from the passage thatcan be stored in the body for the future use.

- a. only carbohydrates
 - ☒ b. not only carbohydrates but also fats
 - c. either fats or proteins
 - d. carbohydrates, fats and proteins
3. Glucose is stored in the liver when.....
- a. carbohydrates are absorbed into the bloodstream
 - b. there is only ^{كافي} sufficient amounts of glucose for the immediate use
 - ☒ c. there is extra amount of glucose for the immediate use
 - d. carbohydrates are not absorbed into the bloodstream
4. According to the passage, proteins are.....
- a. the main source of energy for people
 - b. the second important source of energy for Eskimos
 - ☒ c. ^{حياتي} vital for human growth
 - d. not used when the liver is empty
5. In the first line, "These" refers to.....
- ☒ a. fuels
 - b. fats
 - c. carbohydrates
 - d. proteins

C) Language Practice

economy اقتصاد
 economics رتابة اقتصاد
 economical اقتصادي - economic اقتصادي

Choose the best answer for the blank spaces.

تدريسي اقتصادي

1. Recently, economic sanctions have had a great effect on exporting drugs.
 The government must take action to lift them as soon as possible.
- a. unessential
 - ☒ b. immediate
 - c. internal
 - d. unimportant

- شروع شدن
begin
2. The number of nurses.....to Islam began to rise since they found it a *religion of peace*.
 دین صلح
 a. changing b. exchanging ~~c. converting~~ d. belonging
3. Women more than 60 per cent of the students in Shiraz Medical School.
 افرایش باردار کردن وارد کردن بلند شدن
 a. make up b. make of c. take in d. take off
4. After a complete examination, she wasdiagnosed with a chronic heart condition.
 و معاینه
 a. mainly b. principally c. essentially ~~d. eventually~~
 عمدتاً = mainly ضروری تشخیص داده شد مزمن
5. If Amino acids are not used by the body, they will naturally be the body.
 دفع می شوند از ذخیره می شوند در شکسته می شوند جذب می شوند در
 a. excreted from b. stored in c. broken down d. absorbed in

Unit 5

Pre-reading Activities

A. Some Words that Work

نوشیدنی	beverage (n.)	any type of drink except water
مشارکت کردن	contribute (v.)	help to cause or bring about
باهوش	savvy (adj.)	having practical knowledge or understanding of something; clever at doing something
	clever	