EGÉSZSÉGÜGYI ALAPISMERETEK
ANGOL NYELVEN

KÖZÉPSZINTŰ ÍRÁSBELI
ÉRETTSÉGI VIZSGA

JAVÍTÁSI-ÉRTÉKELÉSI
ÚTMUTATÓ

EMBERI ERŐFORRÁSOK
MINISZTÉRIUMA

ÉRRETTSÉGI VIZSGA • 2013. május 23.
Guide for the Evaluation of the Performance of Examinees  
(to be used by the evaluating teachers)

- If examinees mark all the possible solutions in a **closed-type question** (test question), they cannot receive any points.  
  If examinees mark more answers than indicated in the correction/evaluation guide, their score should be reduced by the number of extra answers they have given.  
  The score given for the questions may not be negative.  
- In the case of **open-type questions**, if the examinee has made, then corrected a mistake, the correct answer can only be accepted, if the correction has been marked clearly.  
- Please mark any eventual elaboration errors or mistakes made in the examination very clearly.  
- The **key words** to be used when **defining concepts** have been underlined in the evaluation guide.  
  Maximum score can only be awarded, if all of these key words have been used in the definition. If the question was only partially answered, where applicable, the value of the partial score is featured in the correction/scoring guide of the given task.  
- There is more than one correct answer for **questions marked with an asterisk (*)** (usually questions involving lists) than required according to the instructions to the question [e.g. Write three (3).....]. **Other correct answers** to these questions—that are **different from those indicated in the correction/evaluation** guide, but have the same content—may be accepted within the set score limit.

Only the points indicated can be awarded for the answers featured in the correction-evaluation guide.

The indicated points can only be broken down further if it is specifically indicated. The scores thus given can only be whole numbers.
Test questions

1. Decide whether the statements are true or false, and write the letters T (true) or F (false) in the corresponding field.

<table>
<thead>
<tr>
<th>Statements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunshine has a stimulating effect on metabolism.</td>
<td>T</td>
</tr>
<tr>
<td>Human skin has alkaline pH and thus chemically protects against certain</td>
<td>F</td>
</tr>
<tr>
<td>fungal and bacterial infections.</td>
<td></td>
</tr>
<tr>
<td>Silk is a natural material used for clothing.</td>
<td>T</td>
</tr>
<tr>
<td>People’s nutritional habits have no effect on the type of illnesses they</td>
<td>F</td>
</tr>
<tr>
<td>develop.</td>
<td></td>
</tr>
<tr>
<td>Proper tooth brushing takes at least 3 minutes.</td>
<td>T</td>
</tr>
<tr>
<td>During active immunization, antibodies are injected into the body.</td>
<td>F</td>
</tr>
<tr>
<td>Over-the-counter drugs are not dangerous.</td>
<td>F</td>
</tr>
<tr>
<td>The first vaccination of a new-born is the BCG vaccination.</td>
<td>T</td>
</tr>
<tr>
<td>Breathing cures are a kind of medical treatment.</td>
<td>F</td>
</tr>
<tr>
<td>In case of a femoral fracture, the patient must be placed in the recovery</td>
<td>F</td>
</tr>
<tr>
<td>position.</td>
<td></td>
</tr>
<tr>
<td>Coffee decreases the gastric acid production of the stomach.</td>
<td>F</td>
</tr>
<tr>
<td>Persons with an asthenic body type are slim and slender and have poor</td>
<td>T</td>
</tr>
<tr>
<td>muscular development.</td>
<td></td>
</tr>
</tbody>
</table>

Each correct answer can be awarded 1 point.

2. Underline the statements which are true.

The sternocleidomastoid muscle (sternomastoid) runs between the sternum and the insertion of the temporal bone.

During exhalation, the diaphragm contracts.

Capillaries perform cell metabolism through diffusion.

Veins have semi lunar valves on the inside.

Lymphocytes are the largest white blood cells.

When moving from the bloodstream to the tissues, monocytes divide/differentiate into macrophages.

Platelets have no nuclei.

Each correct answer can be awarded 1 point.
3. Of the following, underline those which are not components of blood plasma. 2 points

- Albumin
- Fibrinogen
- **Haemoglobin**
- Globulin
- Thrombocyte

Each correct answer can be awarded 1 point.

4. Pair the diseases with their mode of transmission. 4 points
Write the correct number on the dotted line.

A. AIDS, Hepatitis B
B. Influenza (flu), measles, chickenpox
C. Diarrheal diseases
D. Malaria, typhus, Lyme disease, encephalitis, meningitis

1. Food
2. Insects
3. Blood, sexual contact
4. Airborne transmission


Each correct answer can be awarded 1 point.

5. Decide whether the statements are true or false, and write the letters T (true) or F (false) in the corresponding field. 8 points

<table>
<thead>
<tr>
<th>Statements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The deterioration of vision can be caused by diabetes.</td>
<td>T</td>
</tr>
<tr>
<td>Lack of menstruation is a definite sign of pregnancy.</td>
<td>F</td>
</tr>
<tr>
<td>The weight of mature new-borns exceeds 2500 grams.</td>
<td>T</td>
</tr>
<tr>
<td>Condoms provide protection against AIDS.</td>
<td>T</td>
</tr>
<tr>
<td>In old age, cardiac valves become thicker and the capacity of the heart decreases.</td>
<td>T</td>
</tr>
<tr>
<td>Mixed feeding means that the infant eats vegetables as well as meat.</td>
<td>F</td>
</tr>
<tr>
<td>Old people blink more, because they produce fewer tears.</td>
<td>T</td>
</tr>
<tr>
<td>By the end of the fourth month, infants can steadily reach for objects.</td>
<td>T</td>
</tr>
</tbody>
</table>

Each correct answer can be awarded 1 point.
6. From the list below, select the so-called natural treatments. Write the correct letters on the dotted line. 2 points

A. Warm compress  
B. Dental filling  
C. Diet  
D. Cooling bath  
E. Vaccination  
F. Massage

... A, C, D, F ...

Two correct answers are worth 1 point.

7. Underline all true statements. 3 points

A. The APGAR test is performed on new-borns in the fifth and fifteenth minutes after birth.

B. **In the post-placental stage, birth injuries are treated and the mother is under observation.**

C. Habituation refers to the learning of life sustenance activities that have not been learnt yet.

D. The musculature of kindergarteners is fully developed that is why they are so active.

E. **Products containing flour can also be used as source of carbohydrates for the body.**

F. **Gerontology is dedicated to the study of the ageing of the body.**

Each correct answer can be awarded 1 point.

8. Pair up the concepts with their corresponding statement. 6 points

A. Night blindness  
B. Avitaminosis  
C. Hypovitaminosis  
D. Beriberi  
E. Hypocobalaminemia  
F. Rickets

1. Chronic or long-term vitamin deficiency  
2. Develops as a result of vitamin A deficiency  
3. Vitamin deficiency  
4. Develops as a result of vitamin D deficiency  
5. Develops as a result of vitamin B12 deficiency  
6. Develops as a result of vitamin B1 deficiency


Each correct answer can be awarded 1 point.
9. Write the correct letter after the names of the sutures of the skull. 3 points

A. Located between the frontal bone and the parietal bone.
B. Located between the two parietal bones.
C. Located between the parietal bones and the occipital bone.

1. Coronal suture: . .A
2. Lambdoid suture: . C

Each correct answer can be awarded 1 point.

10. Write the correct number on the dotted line. 2 points

1. Carrots
2. Rose hips
3. Blackcurrants
4. Squash

Significant carotene content: . .1, 4.
Significant vitamin C content: .2, 3.

Two correct answers are worth 1 point.

11. Pair up the elements of the ureter wall to their location. 3 points

Write the correct letter on the dotted line.

A. Smooth muscle tissue
B. Connective tissue
C. Transitional epithelial tissue (urothelium)

1. Inside: . . C
2. In the middle: . A
3. Outside: . . . B

Each correct answer can be awarded 1 point.
Short answer questions

12. Answer the following questions and write your answers on the dotted lines. 5 points

What is the function of the umbilical vein?
......Carries oxygen and nutrient-rich blood to the foetus ......

What is the function of natural killer cells?
......They destroy foreign antigens.....

Where is the sinoatrial node located?
......On the wall of the right atrium of the heart......

What kind of epithelium covers the larynx from the inside?
......Ciliated columnar epithelium (respiratory epithelium)......

Where is the place of high acuity vision?
......On the yellow spot (macula)......

Each correct answer can be awarded 1 point.

13. Complete the following sentences, write the correct answers on the dotted lines. 2 points

During isometric contraction, muscle length remains unchanged and muscle tension increases.

During isotonic contraction, the muscle shortens and muscle tone remains unchanged.

Each correct answer can be awarded 1 point.

14. List the parts of vertebrae. 6 points

1. Body of vertebra
2. Transverse processes
3. Articular processes
4. Spinous process
5. Vertebral arch
6. Vertebral foramen

Each correct answer can be awarded 1 point.
15.* List four medications that any medicine cabinet should contain.  

Painkillers  
Antipyretics  
Antiemetics  
Laxatives  
Antidiarrheals  

Two correct answers are worth 1 point.

16. List the parts of the neuron.  

Cell body (soma)  
Nucleus  
Dendrites  
Axon  
Axon terminals  

Two correct answers are worth 1 point.

17. Describe the stools of new-borns.  

Tar like stools in the first days (meconium).  
Breast-fed infants have golden yellow, sour smelling stools.  

Each correct answer can be awarded 1 point.

18.* List three breast-feeding difficulties encountered by young mothers.  

Flat or inverted nipples  
Cracked nipples  
Inflammation of the breasts (mastitis)  
Infectious diseases  

Each correct answer can be awarded 1 point.
19. Write the names of the appropriate parts of the mouth next to the numbers below. 5 points

1: Gingiva (gum)  
2: Upper teeth  
3: Hard palate  
4: Soft palate  
5: Tonsil  
6: Lower teeth  
7: Lower lip  
8: Tongue  
9: Throat  
10: Uvula

Source: Dr. Tibor Donáth: Anatómia élettan.

Two correct answers are worth 1 point.

20.* List five rules that should be followed when bathing an infant. 5 points

Wash hands.
Prepare tools.
Do not leave infant unattended.
Close any windows.
Bath water should be 36-38°C.
Amount of water used should not be more than 1-2 palmfuls.
The infant’s bathtub should not be used for other purposes.
If not healed yet, the umbilical cord stump should be kept dry.

Each correct answer can be awarded 1 point.

21. List the movements of the small intestine. 2 points

1. Peristaltic movement
2. Segmental movement

Each correct answer can be awarded 1 point.

22. List the layers of the uterine wall, from inside to outside. 3 points

1. Inner layer (endometrium)  
2. Middle layer (myometrium)  
3. Outer layer (perimetrium)

The 3 points can be given only in case of correct order.
23. Complete the following definition.  

The objective of first aid is to ensure that the injured person, patient . . . is transported to the best medical care facility within the shortest time possible. . . 
in the appropriate condition.

Each correct answer can be awarded 1 point.

24. List and characterise the types of bleeding.  

1. Capillary bleeding: oozes slowly from the wound, light blood loss.
2. Venous bleeding: dark red blood, flows steadily, quantity depends on the size of the damaged vein.
3. Arterial bleeding: bright-red blood; spurting each time the heart beats.

Each correct answer can be awarded 1 point.

25. List the tasks of someone administering first aid.  

1. Eliminating threats to life, saving lives
2. Relieve the patient's pain
3. Prevent infections and further damage to health
4. Avoid lasting damage to health
5. Promote quick healing

Each correct answer can be awarded 1 point.

26.* Name three usual symptoms of disease in infants and small children.  

Colds
Coughing
Diarrhoea
Ear infections
Vomiting

Each correct answer can be awarded 1 point.