

Study test of prerequisites

Jméno a příjmení:

Datum:

Instrukce k testu:

Způsob vyhodnocení: Při vyhodnocení budou za nesprávné odpovědi strhnuty body.

Blok otázek Natural sciences part

Pokyny k bloku otázek:

1. Which gas from below is partly responsible for the greenhouse effect that makes life on earth? 2
Vyberte jen jednu z následujících možných odpovědí.
 - a) carbon monoxide
 - b) nitrogen dioxide
 - c) sulphur dioxide
 - d) carbon dioxide
2. The elastic axle of the entire human skeleton is formed by the backbone. It is composed of 33-34 vertebrae. How many vertebrae make up the thoracic spine ? 2
Vyberte jen jednu z následujících možných odpovědí.
 - a) 5
 - b) 15
 - c) 12
 - d) 7
3. Rumen, reticulum, omasum, mallow, duodenum words that describe : 2
Vyberte jen jednu z následujících možných odpovědí.
 - a) digestive system of birds
 - b) digestive system of carnivores
 - c) digestive system of rodents
 - d) digestive system of ruminants
4. Select the correct statements about the great vessels of the body's circulation system. 2
Vyberte jen jednu z následujících možných odpovědí.
 - a) in the Great vessel the circulation of blood lacking oxygen leaves the right half of the heart and upper vena cava, oxygenated blood then flows through by the aorta into the left side of the heart
 - b) in the Great vessel the circulation of oxygenated blood leaves the left half of the heart through the aorta, the blood is lacking oxygen of the lower and upper vena cava into the right side of the heart
 - c) in the Great vessel the circulation of blood lacking oxygen leaves the left half of the heart through the -aorta, oxygenated blood is guided by the lower and upper vena cava into the right side of the heart
 - d) in the Great vessel the circulation of oxygenated blood leaves the right half of the heart and upper vena cava, blood lacking oxygen is maintained by the aorta to the right side of the heart

5. Photosynthesis is the anabolic action , which synthesizes organic substances from inorganic utilizing light energy. Photosynthesis can be expressed by the equation: 2
Vyberte jen jednu z následujících možných odpovědí.
- a) $C_6H_{12}O_6 + 6 O_2 = 6 CO_2 + 6 H_2O$
 - b) $6 CO_2 + 6 H_2O = C_6H_{12}O_6 + 6 O_2$
 - c) $6 O_2 + 6 H_2O = C_6H_{12}O_6 + 6 CO_2$
 - d) $6 CO_2 + 6 O_2 = C_6H_{12}O_6 + 6 H_2O$
6. Which blood cells are important in the defense mechanisms of the organism? Their number increases during infection, inflammation, etc. 2
Vyberte jen jednu z následujících možných odpovědí.
- a) phytocytes
 - b) erythrocytes
 - c) platelets
 - d) leukocytes
7. The main photosynthetically active dye contained in all green plants is : 2
Vyberte jen jednu z následujících možných odpovědí.
- a) leukoplasts
 - b) xanthophyll
 - c) chromoplasts
 - d) chlorophyll
8. Select the appropriate definition of the term ethology. Ethology is : 2
Vyberte jen jednu z následujících možných odpovědí.
- a) science of animal behaviour
 - b) the science of relations between organisms and their environment
 - c) the science of the use of scarce productive resources
 - d) the science of biodiversity species
9. Conservation in the Czech Republic is implemented as general and special. Please, indicate which areas are among the large scale protected areas. 2
Vyberte jen jednu z následujících možných odpovědí.
- a) national parks and protected areas
 - b) nature reserves and natural monuments
 - c) temporarily protected areas and natural parks
 - d) national nature reserves and national natural landmarks
10. Ecosystems of living and non-living components which are connected to each other by metabolism, energy flow and transfer of information and that interact and evolve in a certain space and time. Unidirectional sequence of legitimate changes in species composition of biota leads to the gradual substitution of one ecosystem to another, thereby increasing the stability of the whole ecosystem. What is this process called? 2
Vyberte jen jednu z následujících možných odpovědí.
- a) ecological regression
 - b) ecological succession
 - c) ecological evolution
 - d) ecological symbiosis

Blok otázek Social sciences part

Pokyny k bloku otázek:

11. The period of adolescence includes this developmental stage of a man: 4
Vyberte jen jednu z následujících možných odpovědí.
a) adolescence
b) puberty and adolescence
c) adolescence and early and middle adulthood
d) puberty
12. The leading Czech child psychologist is: 4
Vyberte jen jednu z následujících možných odpovědí.
a) K. Nešpor
b) R. Uzel
c) K. Zajíček
d) Z. Matějček
13. The ability to drive a car belongs with: 4
Vyberte jen jednu z následujících možných odpovědí.
a) habits
b) social skills
c) senzomotoric skills
d) intellectual skills
14. The subject of interest of sociology is: 4
Vyberte jen jednu z následujících možných odpovědí.
a) processes taking place in social systems
b) individual characteristics of a person
c) historical contexts
d) behaviour of individuals
15. Asynonym of cogent norm is 4
Vyberte jen jednu z následujících možných odpovědí.
a) moral standard
b) peremptory norm
c) standard dispositive
d) standard support
16. In the Czech republic the legal measures are adopted by 4
Vyberte jen jednu z následujících možných odpovědí.
a) the Senate when the Chamber of Deputies is dissolved
b) the Senate
c) respective/appropriate ministries
d) deputies
17. The term creativity can be replaced by the term: 4
Vyberte jen jednu z následujících možných odpovědí.
a) talent
b) skill
c) creativity
d) inclination
18. A Derogation clause is: 4
Vyberte jen jednu z následujících možných odpovědí.
a) a significant change in the law
b) supplement law
c) repealing provision

d) a legislative amendment

19. The psychic state caused by obstacles on its way to its targets, to meet different needs is called: 4

Vyberte jen jednu z následujících možných odpovědí.

- a) frustration
- b) stress
- c) aggression
- d) burden

20. A person becomes a citizen by 4

Vyberte jen jednu z následujících možných odpovědí.

- a) registration in the register
- b) assigning the personal identification number
- c) obtaining an identity card
- d) birth

21. The basic meaning of social dealing is using good judgement in social action for: 4

Vyberte jen jednu z následujících možných odpovědí.

- a) solution of problems of their own life
- b) care of elderly about citizens
- c) helping the homeless
- d) focusing on other people

Blok otázek Territorial part

Pokyny k bloku otázek:

22. The current problems of Africa are: 3

Vyberte jen jednu z následujících možných odpovědí.

- a) the lack of drinking water, protection of forests and soils
- b) the extinction of animals and species composition changes
- c) the lack of national parks and reserves
- d) the overpopulation

23. Extraction of minerals and wood belongs to the sector: 3

Vyberte jen jednu z následujících možných odpovědí.

- a) secondary manufacturing (secondary sector)
- b) production (obtained raw material for production)
- c) transportation (must be transported)
- d) primary production (primer)

24. The opposite of the core areas are: 3

Vyberte jen jednu z následujících možných odpovědí.

- a) a central region
- b) transport accessible areas
- c) the areas of background
- d) peripheral areas

25. The Baltic States include: 3

Vyberte jen jednu z následujících možných odpovědí.

- a) Lithuania, Latvia, Estonia, Kaliningrad region
- b) Moldova, Belarus
- c) Lithuania, Latvia, Estonia

- d) Lithuania, Latvia, Estonia, Russia
26. The People's Republic can be characterized as: 3
Vyberte jen jednu z následujících možných odpovědí.
a) the state with excellent conditions for agriculture
b) agro - industrial developing country
c) developing country with significant exports of raw materials
d) advanced export - industrial state
27. The main initiator and bearer of globalization is: 3
Vyberte jen jednu z následujících možných odpovědí.
a) industry
b) migration
c) agriculture
d) transportation
28. Which country of southern Europe has the richest mineral resources? 3
Vyberte jen jednu z následujících možných odpovědí.
a) Italy
b) Portugal
c) Greece
d) Spain
29. Most Europeans speak a language that belongs to the language family: 3
Vyberte jen jednu z následujících možných odpovědí.
a) Indo-European
b) Slavic
c) European
d) Germanic
30. The major immigration (refugee) countries are: 3
Vyberte jen jednu z následujících možných odpovědí.
a) Russia, Poland, Spain
b) the USA, Canada, Australia, Western Europe
c) Pakistan, Egypt, Vietnam
d) India, China, Mexico
31. The suburbanisation process is: 3
Vyberte jen jednu z následujících možných odpovědí.
a) migration of population from rural to urban
b) the process of construction of houses in small rural settlements
c) migration of population from the city center to its hinterland
d) the removal of people from the hinterland of the industrial zones
32. Overall changes in population are the result of: 3
Vyberte jen jednu z následujících možných odpovědí.
a) labour migration (and foreign)
b) the balance of natural increase and migration
c) the difference between the number of births and deaths
d) the influence of climatic conditions
33. The capital of Belgium and the seat of the EU's institutions is: 3
Vyberte jen jednu z následujících možných odpovědí.
a) Haag
b) Brussels
c) Amsterdam
d) Strasbourg

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