

Markhor Junior Contest ®

Elementary Level (Class V & VI) Science 2024

There are 25 questions, and each question carries two marks.

1. Which season is most likely to produce conditions conducive to seeing rainbows?

- a) Summer
- b) Monsoon**
- c) Winter
- d) at any time of day or night



2. Alex's brown eyes are a result of genetic inheritance. Which family member is most likely to have passed on this trait to her?

- a) Niece
- b) Sister
- c) Daughter
- d) Grandmother**



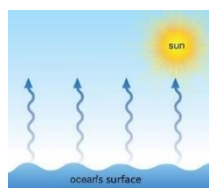
3. When a plane needs more fuel while flying, another plane called a tanker helps by transferring fuel in the air. For this to happen safely, certain conditions must be met.

What is necessary for planes to refuel in the air?

- a) One plane must be smaller
- b) Planes must fly above clouds
- c) Planes must fly at the same speed**
- d) Planes must fly in opposite directions up and down

4. What is the term for the process by which a liquid changes to a gas?

- a) Evaporation**
- b) Condensation
- c) Sublimation
- d) Filtration



5. What is the term for the process by which a solid changes directly to a gas?

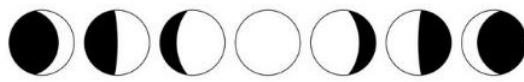
- a) Sublimation**
- b) Evaporation
- c) Melting
- d) Filtration

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6. Which planet has the prettiest and most famous rings in our solar system?

- a) Mars
- b) Jupiter
- c) **Saturn**
- d) Neptune

7. What causes the Moon to appear to change shape in the sky?



- a) The Earth's shadow on the Moon
- b) The Moon's shadow on the Earth
- c) **The Moon's position relative to the Earth and Sun**
- d) The Moon's distance from the Earth

8. Our solar system has some planets that are close to the Sun. These planets are called "inner" because they orbit closer to the Sun than the outer planets.

How many inner planets are there?

- a) 3
- b) 5
- c) 8
- d) **4**

9. What is a constellation?

- a) A picture taken from space
- b) A group of stars in the sky
- c) **A group of stars that make a shape or picture**
- d) A picture of stars with astronauts

10. What is true about the brain development in vertebrate animals?

- a) The brain is poorly developed in vertebrate animals.
- b) The brain is well developed in invertebrate animals.
- c) **The brain is well developed in vertebrate animals.**
- d) The brain is absent in vertebrate animals.

11. What type of rays from the Sun are absorbed by the ozone layer?

- a) **Ultraviolet**
- b) X-rays
- c) Cosmic
- d) Atmospheric

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12. What are the three main regions of the sky?
- a) Northern, Southern, and Middle
 - b) Northern, Equatorial, and Southern**
 - c) North, East, and South
 - d) All of the above
13. What is the term for the remains or traces of living organisms from the past, such as bones, shells, and leaves, that are preserved in rock?
- a) Fossils**
 - b) Minerals
 - c) Rocks
 - d) Soil
14. What is the main reason why the leaves of a tree change color from green to red, orange, and yellow in autumn?
- a) To prepare for the winter season**
 - b) To attract more insects for pollination
 - c) To produce more fruits and nuts
 - d) To absorb more sunlight for photosynthesis
15. What is the term for the process by which the Earth's plates move and change, causing the formation of mountains, volcanoes, and earthquakes?
- a) Continental drift
 - b) Plate tectonics**
 - c) Weathering and erosion
 - d) Glaciation
16. Which process occurs when an organism's genetic information is passed from one generation to the next?
- a) Mutation
 - b) Genetic drift
 - c) Gene expression
 - d) Heredity**
17. Which type of rock is formed from the cooling and solidification of magma?
- a) Igneous**
 - b) Sedimentary
 - c) Metamorphic
 - d) Foliated

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18. Which type of energy is transferred from one object to another through direct contact?

- a) **Thermal energy**
- b) Kinetic energy
- c) Potential energy
- d) Electrical energy

19. What is the scientific term for the study of the weather?

- a) **Meteorology**
- b) Oceanography
- c) Geology
- d) Astronomy

20. Electromagnetic waves transfer ____.

- a) Thermal energy
- b) Kinetic energy
- c) Potential energy
- d) **Radiant energy**

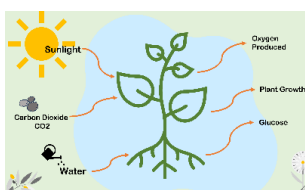
21. The part of the brain that controls balance and coordination is the:

- a) Cerebrum
- b) **Cerebellum**
- c) Thalamus
- d) Medulla oblongata

22. During photosynthesis, plants take in carbon dioxide and release oxygen.

Which of the following is NOT required for photosynthesis?

- a) Water
- b) Sunlight
- c) Chlorophyll
- d) **Nitrogen**



23. When you rub a balloon on your hair, the balloon picks up small pieces of hair. What scientific concept explains this attraction?

- a) Gravity
- b) Friction
- c) **Static electricity**
- d) Magnetism

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24. The process of breaking down food into smaller molecules the body can use is called:

- a) Digestion**
- b) Respiration
- c) Photosynthesis
- d) Circulation

25. Earth is the only planet in our solar system known to support life. What is a key factor that allows life to exist on Earth, but not necessarily on other planets?

- a) Presence of liquid water**
- b) Abundance of oxygen in the atmosphere
- c) Existence of a large moon
- d) Proximity to the Sun