

Markhor Junior Contest ®

Elementary Level (Class V & VI) Science 2009

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

1. **What should a scientist do if the results do not support the hypothesis?**
A) Change the data
B) Accept failure and do nothing
C) Modify the hypothesis or try a new experiment
D) Ignore the results
2. **In a pie chart, all the slices together should add up to:**
A) 50%
B) 75%
C) 100%
D) 0%
3. **One effect of deforestation on climate is:**
A) Cooling the Earth
B) Increasing global warming
C) Making more rainforests
D) Producing more oxygen
4. **Which of these is an example of sustainable practice at home?**
A) **Turning off lights when not in use**
B) Throwing plastic in the garden
C) Using too much water
D) Cutting trees for firewood unnecessarily
5. **Which of these shows a correct simple food chain?**
A) **Grass → Rabbit → Fox**
B) Rabbit → Grass → Fox
C) Fox → Rabbit → Grass
D) Grass → Fox → Rabbit
6. **A giraffe's long neck is an adaptation for:**
A) Running fast
B) Reaching leaves on tall trees
C) Hiding in caves
D) Swimming in rivers

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7. **Velcro is made of:**
A) **Hooks and loops**
B) Plastic sheets
C) Metal wires
D) Rubber bands
8. **Which system helps the body respond to changes inside and outside the body?**
A) **Nervous system**
B) Digestive system
C) Circulatory system
D) Excretory system
9. **Blood leaving the heart and going to the lungs is:**
A) Oxygen-rich
B) **Oxygen-poor**
C) Full of nutrients
D) Without any cells
10. **How can salt be separated from water?**
A) Filtration
B) **Evaporation**
C) Using a magnet
D) Decanting
11. **Salt crystals form after:**
A) Filtration of sugar water
B) **Evaporation of salt water**
C) Chromatography of ink
D) Mixing oil and water
12. **Which factor affects the strength of a solution?**
A) Amount of solute
B) Amount of solvent
C) Temperature
D) **All of the above**
13. **Which of these is a compound?**
A) Iron
B) **Water**
C) Air
D) Salt and pepper mix

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14. Soap water turns red litmus paper:

- A) Blue**
- B) Red
- C) Green
- D) Yellow

15. Which force pulls objects toward the center when moving in a circle?

- A) Friction
- B) Gravity
- C) Centripetal force**
- D) Tension

16. A stationary ball will not move unless:

- A) It is hot
- B) Someone or something applies force**
- C) The air moves
- D) It is round

17. Using multiple pulleys together is called a:

- A) Block and tackle**
- B) Lever system
- C) Gear train
- D) Wedge system

18. A simple circuit contains:

- A) Battery, wire, and bulb**
- B) Battery only
- C) Wire only
- D) Magnet only

19. Current electricity can do:

- A) Light up a bulb
- B) Power a fan
- C) Charge a phone
- D) All of the above**

20. Electromagnets are better than permanent magnets in some machines because:

- A) Their strength can be turned on or off**
- B) They are always weak
- C) They do not need electricity
- D) They repel all metals

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21. A sundial works because of:

- A) Reflection
- B) Shadows**
- C) Refraction
- D) Diffusion

22. Prism works because of:

- A) Reflection only
- B) Refraction and dispersion of light**
- C) Absorption
- D) Emission

23. Which part of the cell produces energy?

- A) Nucleus
- B) Cytoplasm
- C) Mitochondria**
- D) Cell wall

24. Which part of the cell stores genetic material?"

- A) Cytoplasm
- B) Nucleus**
- C) Mitochondria
- D) Cell membrane

25. Which of these is an example of moving energy?"

- A) A rolling ball**
- B) A parked car
- C) Water in a bottle
- D) A book on a shelf