

NSO Class 06

Total Questions: 35

Time: 60 min

1. A student has a mixture of sand, salt, and iron filings. What is the correct sequence of methods to separate these three components?

- A) Filtration, Magnetic Separation, Evaporation
- B) Magnetic Separation, Filtration, Evaporation
- C) Evaporation, Filtration, Magnetic Separation
- D) Magnetic Separation, Evaporation, Filtration

2. Which joint in the human body is an example of a pivot joint, allowing for rotational movement?

- A) The joint between the upper arm and shoulder blade
- B) The joint in the knee
- C) The joint between the first and second vertebrae of the neck
- D) The joint in the wrist

3. If a car is moving on a straight road at a constant speed of 60 km/h, what can be said about the forces acting on it?

- A) The force of the engine is greater than the force of friction.
- B) The force of friction is greater than the force of the engine.
- C) The forces acting on the car are balanced.
- D) There are no forces acting on the car.

4. A plant cell is different from an animal cell because it possesses:

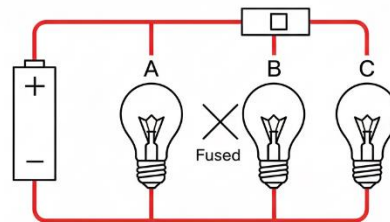
- A) A cell membrane and a nucleus

- B) A cell wall and chloroplasts
- C) Mitochondria and cytoplasm
- D) A nucleus and vacuoles

5. What happens to the light rays when they pass through a concave lens?

- A) They converge at a focal point.
- B) They pass through without any change.
- C) They diverge or spread out.
- D) They are reflected back.

6. Look at the image of an electric circuit. If the switch is closed, but Bulb B is fused (broken), what will happen?



- A) Only Bulb A will light up.
- B) Only Bulb C will light up.
- C) Bulbs A and C will light up.
- D) None of the bulbs will light up.

7. Which of the following is an example of an irreversible change?

- A) Melting of wax
- B) Freezing of water
- C) Burning of a magnesium ribbon
- D) Folding a piece of paper



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8. In which of these activities is the force of friction most useful and intentionally increased?

- A) A skater gliding on ice
- B) Applying brakes on a bicycle
- C) A boat moving through water
- D) Polishing a wooden surface

9. What is the primary function of stomata, the tiny pores on the surface of a leaf?

- A) To absorb water from the air
- B) For the exchange of gases (carbon dioxide and oxygen)
- C) To anchor the plant firmly in the soil
- D) To transport food to other parts of the plant

10. Which method of food preservation involves using a high concentration of salt or sugar to draw out water from food items, thus preventing microbial growth?

- A) Pasteurization B) Canning
- C) Curing D) Freezing

11. The phenomenon where an opaque object blocks the path of light, forming a dark area behind it, is known as:

- A) Reflection
- B) Refraction
- C) Formation of a shadow
- D) Dispersion

12. Which of these animals has an exoskeleton, a hard outer covering that provides support and protection?

- A) Earthworm B) Fish C) Crab D) Snake

13. A farmer notices that his crops are not growing well and the leaves are turning yellow. A soil test reveals a deficiency of Nitrogen. Which component of a balanced fertilizer should he add?

- A) Potash (Potassium)
- B) Phosphate (Phosphorus)
- C) Urea (Nitrogen)
- D) Lime (Calcium)

14. What type of motion is exhibited by the blades of a moving fan?

- A) Rectilinear motion
- B) Curvilinear motion
- C) Rotational motion
- D) Periodic motion

15. Which vitamin is synthesized in the human skin in the presence of sunlight and is essential for bone health?

- A) Vitamin A B) Vitamin B12
- C) Vitamin C D) Vitamin D

16. Which of these is a method for conserving water?

- A) Using a hose to wash cars
- B) Leaving the tap running while brushing teeth
- C) Installing a drip irrigation system for crops
- D) Disposing of industrial waste in rivers

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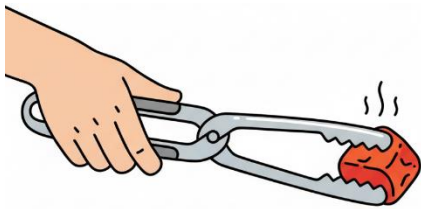
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17. What is the unit of measurement for electric current?

- A) Volt B) Ohm C) Watt D) Ampere

18. Look at the image of a person using a pair of tongs to pick up a hot object. This is an example of which class of lever?



- A) First-class lever
B) Second-class lever
C) Third-class lever
D) It is not a lever

19. Which adaptation helps a camel conserve water in the desert?

- A) Having a large, fat-filled hump
B) Producing very concentrated urine and dry dung
C) Having wide, padded feet
D) Having long eyelashes

20. The process of separating insoluble solid particles from a liquid by passing the mixture through a filter paper is called:

- A) Decantation B) Filtration
C) Evaporation D) Sieving

21. In a magnet, where is the magnetic force the strongest?

- A) In the center of the magnet
B) Evenly distributed throughout the magnet
C) At the two poles
D) Only at the North pole

22. Which gas is released by plants during photosynthesis and used by animals for respiration?

- A) Carbon dioxide B) Nitrogen
C) Oxygen D) Methane

23. The process of loosening and turning over the soil before planting seeds is known as:

- A) Weeding
B) Harvesting
C) Tilling or Ploughing
D) Irrigation

24. What is the main cause of the formation of sea breezes and land breezes?

- A) The rotation of the Earth
B) The gravitational pull of the Moon
C) The uneven heating of land and sea
D) The movement of clouds

25. Which component of food is known as a "bodybuilding" nutrient and is essential for growth and repair of tissues?

- A) Carbohydrates B) Fats
C) Proteins D) Vitamins

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26. A periscope works on the principle of:

- A) Refraction of light
- B) Dispersion of light
- C) Reflection of light by plane mirrors
- D) The bending of light around corners

27. What is the process of converting waste materials into new materials and objects called?

- A) Landfilling
- B) Incineration
- C) Recycling
- D) Composting

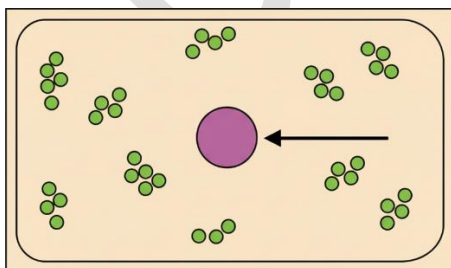
28. Which of these is a characteristic of a habitat?

- A) It only contains living things.
- B) It provides food, water, shelter, and space for an organism.
- C) It is always a very large area.
- D) It has a constant temperature throughout the year.

29. The fibrous roots of which plant are used to make ropes and mats?

- A) Cotton
- B) Jute
- C) Silk
- D) Wool

30. Look at the image showing a diagram of a plant cell. Which labeled organelle acts as the "control center" of the cell?



- A) Vacuole
- B) Chloroplast
- C) Nucleus
- D) Cytoplasm

31. When a solid dissolves in a liquid, the solid is called the solute and the liquid is called the:

- A) Solution
- B) Solvent
- C) Mixture
- D) Sediment

32. What is the primary reason why astronauts float inside the International Space Station?

- A) There is no gravity in space.
- B) The space station is falling around the Earth, and so are the astronauts.
- C) The astronauts are wearing special suits that make them float.
- D) The air pressure inside the station is very low.

33. Which of these is a method to prevent the rusting of iron?

- A) Leaving it exposed to moist air
- B) Coating it with a layer of oil or paint
- C) Scratching its surface
- D) Adding salt water to it

34. Earthworms move by using:

- A) Fins and tails
- B) Wings and feathers
- C) Jointed legs
- D) Circular and longitudinal muscles, and bristles



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35. What is the term for a substance that does not allow electricity to pass through it?

- A) A conductor B) An insulator
C) A semiconductor D) An alloy