

NSO Class 05

Total Questions: 35

Time: 60 min

1. A student notices that a puddle of water on the pavement disappears on a sunny day. Which two processes are primarily responsible for this?

- A) Condensation and Freezing
- B) Evaporation and Transpiration
- C) Evaporation and Condensation
- D) Evaporation and Sublimation

2. Which part of the human brain is primarily responsible for balance, coordination, and controlling voluntary movements?

- A) Cerebrum B) Cerebellum
- C) Medulla Oblongata D) Spinal Cord

3. If you see a lunar eclipse, what is the correct alignment of the Sun, Earth, and Moon?

- A) Sun - Moon - Earth
- B) Sun - Earth - Moon
- C) Earth - Sun - Moon
- D) Moon - Sun - Earth

4. A plant's seed is dispersed to a new location by wind. Which characteristic would be most helpful for this type of dispersal?

- A) Being heavy and round
- B) Having a hard, stony shell
- C) Having wing-like structures or being lightweight
- D) Being sweet and fleshy

5. Which of these is an example of a first-class lever, where the fulcrum is between the effort and the load?

- A) A bottle opener
- B) A pair of scissors
- C) A fishing rod
- D) A wheelbarrow

6. Look at the image showing a diagram of a flower. For fertilization to occur, pollen must travel from which part to which part?



- A) From the Petal to the Sepal
- B) From the Anther to the Stigma
- C) From the Ovary to the Anther
- D) From the Stigma to the Petal

7. Why does a person's breath appear as a "white cloud" on a very cold day?

- A) The cold air freezes the carbon dioxide you exhale.
- B) The water vapor in your warm breath condenses into tiny water droplets in the cold air.



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- C) Your lungs release smoke when it is cold.
D) The light from the sun reflects off your breath.
8. Which deficiency disease is caused by a lack of Vitamin C and leads to symptoms like bleeding gums?
A) Rickets B) Scurvy C) Beriberi D) Goitre
9. What is the primary function of the kidneys in the human body?
A) To pump blood
B) To digest food
C) To filter waste products from the blood to produce urine
D) To produce hormones for growth
10. A farmer wants to grow plants in soil that has very little humus. What can they add to the soil to improve its fertility?
A) Sand and pebbles
B) Salt and water
C) Manure and compost
D) Clay and silt
11. Which simple machine is essentially a modified, circular lever?
A) Inclined Plane B) Screw
C) Wheel and Axle D) Wedge
12. An animal has thick fur, a layer of blubber, and lives in a very cold, snowy region. Which adaptation is this animal most likely to have?
A) Migration during winter
B) Hibernation in a burrow
C) Camouflage to blend with the snow
D) A streamlined body for swimming
13. Which of these is a chemical change, resulting in the formation of a new substance?
A) Melting an ice cube
B) Tearing a piece of paper
C) Baking a cake
D) Dissolving sugar in water
14. What is the main reason Earth experiences different seasons?
A) The Earth's distance from the Sun changes.
B) The Earth's rotation on its axis.
C) The Earth's revolution around the Sun and the tilt of its axis.
D) The amount of energy the Sun produces changes.
15. If a sound is very loud, what property of its sound wave is large?
A) Frequency B) Wavelength
C) Speed D) Amplitude
16. Which of these is a communicable disease, meaning it can spread from one person to another?
A) Diabetes B) Scurvy
C) Influenza D) A heart attack
17. In a food chain, if a plant is eaten by a grasshopper, and the grasshopper is eaten by a frog, what is the frog?
A) A producer

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- B) A primary consumer
- C) A secondary consumer
- D) A decomposer

18. Look at the image showing the human skeletal system. Which labeled joint allows for the greatest range of motion in multiple directions (like swinging your arm)?



- A) The joint at the Neck
- B) The joint at the Shoulder
- C) The joint at the Knee
- D) The joint at the Elbow

19. Why does a ball thrown up into the air eventually fall back to the ground?

- A) Due to the force of friction
- B) Due to the Earth's rotation
- C) Due to the force of gravity
- D) Due to air pressure

20. What is the function of the waxy coating (cuticle) on the leaves of many plants?

- A) To absorb sunlight

- B) To prevent water loss
- C) To make the leaves taste bad to insects
- D) To give the leaves their green color

21. Which part of the blood is responsible for clotting and stopping bleeding when you get a cut?

- A) Red blood cells
- B) White blood cells
- C) Plasma
- D) Platelets

22. Which of these is an example of a non-renewable resource?

- A) Wind B) Sunlight C) Coal D) Water

23. An object appears red because it:

- A) Absorbs all colors of light.
- B) Reflects red light and absorbs other colors.
- C) Absorbs red light and reflects other colors.

- D) Bends all colors of light.

24. The process of converting a solid directly into a gas, without passing through the liquid state, is called:

- A) Evaporation B) Condensation
- C) Sublimation D) Freezing

25. Which system in the human body sends and receives electrical signals to control all body functions?

- A) Skeletal system
- B) Circulatory system



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C) Respiratory system

D) Nervous system

26. Which of these methods of food preservation works by removing water from the food to stop microbial growth?

A) Pickling B) Refrigeration

C) Dehydration D) Canning

27. What is the fundamental difference between a rock and a mineral?

A) Rocks are natural, while minerals are man-made.

B) Minerals have a definite chemical composition, while rocks are mixtures of different minerals.

C) Rocks are always harder than minerals.

D) Minerals are found on the surface, while rocks are found deep underground.

28. An animal that can live both on land and in water, has moist skin, and lays eggs in water is classified as a(n):

A) Reptile B) Amphibian C) Mammal D) Fish

29. What type of energy is stored in the food we eat?

A) Kinetic energy

B) Chemical energy

C) Light energy

D) Mechanical energy

30. Which of the following is caused by the pollution of air with gases like sulfur dioxide?

A) Earthquakes B) Acid rain

C) Floods D) Soil erosion

31. A shadow is longest in the morning and evening and shortest at noon. This is because of the changing:

A) Size of the Sun

B) Distance of the Earth from the Sun

C) Position of the Sun in the sky

D) Brightness of the Sun

32. Look at the image showing the arrangement of particles in the three states of matter. Which state represents a substance that can be compressed easily?

A) Solid B) Liquid C) Gas D) Plasma

33. What is the name of the process where sediments are dropped or deposited in a new location by wind, water, or ice?

A) Erosion B) Weathering

C) Deposition D) Compaction

34. Which gas do plants take in from the atmosphere to perform photosynthesis?

A) Oxygen B) Nitrogen

C) Carbon dioxide D) Hydrogen

35. A pulley system is used to lift a heavy box. How does the pulley make the work easier?

A) It reduces the weight of the box.

B) It changes the direction of the force needed.

C) It eliminates the force of gravity.

D) It increases the mass of the box.