

EXAM PREPARATION SERIES

Everyday Science

30 Solved MCQs

A tough, exam-focused set of everyday-science multiple choice questions with verified correct answers and short explanations — built for competitive test prep.

30

QUESTIONS

100%

VERIFIED

A+

DIFFICULTY

Solved · Answer-Key Highlighted · Explained

SCIMCQ

Everyday Science — Solved MCQs

Correct answer is highlighted in green with a tick. A brief explanation follows each question.

01

The normal pH of human blood is maintained at approximately:

A 6.8

B 7.0

✓ C 7.4

D 8.2

Why? Blood pH is tightly regulated between 7.35–7.45; a shift either way causes acidosis or alkalosis.

02

Vitamin D, essential for calcium absorption, is synthesized in the skin on exposure to:

A Infrared rays

✓ C Ultraviolet rays

C Visible light

D X-rays

Why? UV-B rays convert 7-dehydrocholesterol in skin into previtamin D3.

03

The SI unit used to measure electrical resistance is the:

A Volt

B Ampere

✓ C Ohm

D Watt

Why? Resistance (R) is measured in Ohms, defined by $V = IR$.

04

Balance, posture and muscle coordination are primarily controlled by the:

A Cerebrum

✓ C Cerebellum

C Medulla oblongata

D Hypothalamus

Why? The cerebellum fine-tunes motor movements and maintains equilibrium.

05

Which blood group is regarded as the universal donor for transfusion?

☐ A AB positive

☐ B A negative

☒ C O negative

☐ D B positive

Why? O negative lacks A, B and Rh antigens, so it rarely triggers immune rejection.

06

Sound travels fastest through which of the following media?

☐ A Air

☐ B Water

☒ C Steel

☐ D Vacuum

Why? Sound speed rises with medium density and elasticity; steel transmits it far faster than air or water.

07

Insulin, which regulates blood glucose, is secreted by the:

A Liver

✓ **Pancreas**

C Thyroid

D Adrenal gland

Why? Beta cells in the islets of Langerhans within the pancreas produce insulin.

08

The most abundant gas in Earth's atmosphere by volume is:

A Oxygen

B Carbon dioxide

✓ **Nitrogen**

D Argon

Why? Nitrogen makes up about 78% of the atmosphere; oxygen is second at about 21%.

09

A deficiency of which vitamin typically causes night blindness?

☒ Vitamin A

☐ Vitamin B12

☐ Vitamin C

☐ Vitamin E

Why? Vitamin A is needed to make rhodopsin, the pigment used for low-light vision.

10

Which structure of the eye controls the amount of light entering it?

☐ Retina

☐ Cornea

☒ Iris

☐ Lens

Why? The iris adjusts pupil size, regulating how much light reaches the retina.

11

The loss of water vapour from plant leaves is called:

A Respiration

✓ B Transpiration

C Osmosis

D Guttation

Why? Transpiration occurs mainly through stomata and helps pull water up from the roots.

12

The acid naturally present in the human stomach that aids digestion is:

A Sulphuric acid

B Acetic acid

✓ C Hydrochloric acid

D Nitric acid

Why? Gastric glands secrete HCl, which activates pepsin and kills ingested pathogens.

13

The SI unit of frequency, equal to one cycle per second, is the:

☒ Hertz

☐ B Joule

☐ C Newton

☐ D Pascal

Why? Named after Heinrich Hertz; 1 Hz means one complete wave cycle per second.

14

Which gas is commonly used to fill balloons because it is lighter than air and non-flammable?

☐ A Hydrogen

☒ Helium

☐ C Methane

☐ D Nitrogen

Why? Helium is inert and about seven times lighter than air, unlike flammable hydrogen.

15

The adult human skeleton normally contains how many bones?

A 186

B 196

✓ C 206

D 216

Why? Infants have around 300 bones that fuse together, leaving 206 in adulthood.

16

The theory of relativity, which reshaped ideas of space and time, was proposed by:

A Isaac Newton

B Niels Bohr

✓ C Albert Einstein

D Max Planck

Why? Einstein published Special Relativity in 1905 and General Relativity in 1915.

17

The organelle regarded as the 'powerhouse of the cell' is the:

A Nucleus

B Ribosome

✓ Mitochondrion

D Golgi body

Why? Mitochondria generate ATP through cellular respiration, powering most cell activity.

18

Which metal remains in liquid form at normal room temperature?

A Sodium

✓ Mercury

C Gallium

D Caesium

Why? Mercury has a very low melting point (-38.8°C), keeping it liquid at room temperature.

19

The average normal human body temperature is approximately:

A 35°C

B 36°C

✓ C 37°C

D 39°C

Why? 37°C (98.6°F) is the commonly cited average, though it varies slightly between individuals.

20

During photosynthesis, plants primarily absorb which gas from the air?

A Oxygen

B Nitrogen

✓ C Carbon dioxide

D Hydrogen

Why? CO₂ is combined with water using light energy to produce glucose and oxygen.

21

The largest gland in the human body is the:

☐ A Pancreas

☐ B Thyroid

☒ C Liver

☐ D Pituitary

Why? The liver, weighing about 1.5 kg, is the body's largest internal organ and gland.

22

Sound waves cannot travel through which of the following?

☐ A Water

☐ B Steel

☐ C Air

☒ D Vacuum

Why? Sound needs a material medium to propagate; a vacuum has no particles to carry vibrations.

23

Which vitamin plays a key role in normal blood clotting?

☒ Vitamin K

☐ Vitamin B6

☐ Vitamin C

☐ Vitamin D

Why? Vitamin K activates clotting factors synthesized in the liver.

24

The chemical formula of common table salt is:

☐ KCl

☒ NaCl

☐ CaCl₂

☐ MgCl₂

Why? Table salt is sodium chloride, formed from Na⁺ and Cl⁻ ions.

25

Balance and equilibrium of the body are sensed mainly by the ear's:

A Cochlea

B Eardrum

✓ Semicircular canals

D Auditory nerve

Why? The fluid-filled semicircular canals in the inner ear detect rotational movement.

26

The Sun's mass is composed mainly of which two elements?

A Oxygen and Carbon

✓ Hydrogen and Helium

C Nitrogen and Hydrogen

D Helium and Neon

Why? Roughly 74% hydrogen and 24% helium by mass, fused via nuclear fusion for energy.

27

Which part of the human brain regulates body temperature and hunger?

A Cerebellum

✓ B Hypothalamus

C Medulla oblongata

D Thalamus

Why? The hypothalamus maintains homeostasis, controlling temperature, hunger and thirst.

28

Rust forms on iron due to a chemical reaction with:

A Nitrogen only

✓ B Oxygen and moisture

C Carbon dioxide only

D Hydrogen

Why? Iron oxidises in the presence of both oxygen and water to form hydrated iron oxide.

29

The units used to measure the loudness of sound are:

A Hertz

✓ **Decibels**

C Lumens

D Watts

Why? Decibels (dB) measure sound intensity on a logarithmic scale.

30

Which of these is NOT a greenhouse gas?

A Carbon dioxide

B Methane

✓ **Nitrogen**

D Water vapour

Why? Nitrogen is diatomic and does not absorb infrared radiation, unlike true greenhouse gases.