

Test: 2020-21 Science ORQE

Question 1 of 50

Which of the following is not a prime number?

- A) 43
- B) 41
- C) 49
- D) 47

Question 2 of 50

Which of the following shapes has two sets of parallel lines but no right angles?

- A) Square
- B) Rectangle
- C) Trapezoid
- D) Rhombus

Question 3 of 50

A dodecagon has how many sides?

- A) 11
- B) 13
- C) 12
- D) 14

Question 4 of 50

Isosceles, Scalene, and Equilateral are all types of which shape?

- A) Circles
- B) Pentagons
- C) Triangles
- D) Squares

Question 5 of 50

Which of the following is not considered an irrational number?

-
- A) 8
 - B) π
 - C) e
 - D) $\sqrt{2}$

Question 6 of 50

Sir Tim Berners-Lee and Alan Turing are best known for their pioneering work in what scientific field?

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- A) Computer science
 - B) Botany
 - C) Chemistry
 - D) Astronomy

Question 7 of 50

Which of the following scientists is best known for the development of the telegraph?

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- A) Neil deGrasse Tyson
 - B) Samuel Morse
 - C) Marie Curie
 - D) Isaac Newton

Question 8 of 50

The ability of an object to float in a fluid is known by what term?

-
- A) Viscosity
 - B) Friction
 - C) Inertia
 - D) Buoyancy

Question 9 of 50

Which element's 235 isotope was used during the Manhattan Project to produce a nuclear fission reaction?

- A) Gold
- B) Uranium
- C) Carbon
- D) Cobalt

Question 10 of 50

Which of the following is not a branch of physics?

- A) Mechanics
- B) Genetics
- C) Electromagnetism
- D) Optics

Question 11 of 50

What is the only force acting on an object in Earth's orbit?

- A) Inertia
- B) Drag
- C) Normal force
- D) Gravity

Question 12 of 50

Organic chemistry studies compounds and molecules containing what element?

- A) Uranium
- B) Carbon
- C) Tennessine
- D) Sodium

Question 13 of 50

Which of these elements is a gas under standard temperature and pressure?

-
- A) Mercury
- B) Helium
- C) Nickel
- D) Titanium

Question 14 of 50

Which of the following elements is not considered a noble gas?

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- A) Argon
- B) Neon
- C) Xenon
- D) Oxygen

Question 15 of 50

What is the chemical formula for water?

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- A) $C_6H_{12}O_6$
- B) H_2O
- C) CO_2
- D) $NaCl$

Question 16 of 50

Which of the following molecules is found in a namesake layer in the stratosphere?

-
- A) Heavy Water
- B) Methane
- C) Ozone
- D) Carbon monoxide

Question 17 of 50

Which of the following is not composed primarily of carbon?

- A) Bronze
- B) Diamond
- C) Graphite
- D) Anthracite coal

Question 18 of 50

Which of the following is found in the digestive system?

- A) Kidney
- B) Esophagus
- C) Lung
- D) Patella

Question 19 of 50

Both phalanges and metatarsals can be found in what structures in humans?

- A) Head
- B) Shoulders
- C) Feet
- D) Knees

Question 20 of 50

The rough endoplasmic reticulum is made "rough" due to the presence of what other organelle?

- A) Ribosomes
- B) Mitochondria
- C) Electrons
- D) Nuclei

Question 21 of 50

What taxonomic division contains several classes within a common kingdom?

- A) Order
- B) Phylum
- C) Genus
- D) Family

Question 22 of 50

Antonie van Leeuwenhoek was a 17th century Dutch scientist known for his contributions to which field?

- A) Telecommunications
- B) Nuclear physics
- C) Rocketry
- D) Microbiology

Question 23 of 50

Which of the following scientists helped Watson and Crick to describe the DNA molecule, which is vital to understanding cellular biology?

- A) Dmitri Mendeleev
- B) Galileo Galilei
- C) Albert Einstein
- D) Rosalind Franklin

Question 24 of 50

Photosynthesis is the process that produces what "energy currency"?

- A) Vitamin C
- B) Adenosine triphosphate
- C) Water
- D) Carbon dioxide

Question 25 of 50

Hedgehogs, weasels, and giraffes would all be classified as which of the following?

- A) Mammals
- B) Cnidaria
- C) Cyanobacteria
- D) Reptiles

Question 26 of 50

Which of the following is a cellular organelle?

- A) Xylem
- B) Pituitary
- C) Pulsar
- D) Nucleus

Question 27 of 50

Sugars and starches are types of what nutrient?

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

Question 28 of 50

A tundra climate can be found in which of the following countries?

- A) Brazil
- B) Norway
- C) Egypt
- D) Cuba

Question 29 of 50

Which of the following terrestrial biomes has the greatest biodiversity?

- A) Taigas
- B) Tundras
- C) Tropical rainforests
- D) Grasslands

Question 30 of 50

Which of the following birds is an example of an apex predator?

- A) House Sparrow
- B) Golden Eagle
- C) Mallard
- D) Ruby-Throated Hummingbird

Question 31 of 50

Roughly 90 percent of the world's earthquakes occur in the basin of what body of water?

- A) Pacific Ocean
- B) Indian Ocean
- C) Caribbean Sea
- D) Mediterranean Sea

Question 32 of 50

Weather occurs in which layer of the atmosphere?

- A) Lithosphere
- B) Exosphere
- C) Troposphere
- D) Thermosphere

Question 33 of 50

Which of the following things might be left behind by a glacier?

- A) Parsecs
- B) Moraines
- C) Van Allen Belts
- D) Quasars

Question 34 of 50

Which of the following terms best describes the Ohio River in relation to the Mississippi River?

- A) Strait
- B) Drainage basin
- C) Moraine
- D) Tributary

Question 35 of 50

Active volcanoes can be found in all of these US states, except?

- A) Alaska
- B) Delaware
- C) Washington
- D) California

Question 36 of 50

Rocks are classified as either metamorphic, sedimentary, or which other type?

- A) Mohs
- B) Igneous
- C) Radioactive
- D) Semi-metallic

Question 37 of 50

Which of these cities would be classified as having a tropical monsoon climate?

- A) New York
- B) Chicago
- C) Miami
- D) Seattle

Question 38 of 50

Pluto is currently classified as which of the following structures?

- A) Asteroid
- B) Moon
- C) Dwarf planet
- D) Exoplanet

Question 39 of 50

Which of the following scientists is best known for work in astronomy?

- A) Guglielmo Marconi
- B) Carl Sagan
- C) Alan Turing
- D) Samuel Morse

Question 40 of 50

Which planet has 82 moons, more than any other planet, along with its famous set of rings?

- A) Saturn
- B) Mercury
- C) Neptune
- D) Earth

Question 41 of 50

Phobos and Deimos are the two natural moons of what planet?

- A) Mars
- B) Mercury
- C) Earth
- D) Venus

Question 42 of 50

Which space program sent the first man-made objects to leave the solar system?

- A) Chang'e
- B) Voyager
- C) Sputnik
- D) Copernicus

Question 43 of 50

Which planet is known for its Great Red Spot?

- A) Earth
- B) Jupiter
- C) Neptune
- D) Mercury

Question 44 of 50

What was the name of the mission on which people first walked on the moon?

- A) Vostok 1
- B) Apollo 11
- C) New Horizons
- D) Challenger

Question 45 of 50

The heart is a part of which of the body's systems?

- A) Circulatory system
- B) Digestive system
- C) Integumentary system
- D) Excretory system

Question 46 of 50

Jacques Cousteau is best known for his research in what field?

- A) Anatomy
- B) Nuclear physics
- C) Oceanography
- D) Astronomy

Question 47 of 50

Which of the following publications was written by Charles Darwin?

- A) Opticks
- B) Principia Mathematica
- C) On the Origin of Species
- D) Arithmetica

Question 48 of 50

Which of the following elements is the lightest?

- A) Calcium
- B) Sulfur
- C) Hydrogen
- D) Yttrium

Question 49 of 50

North American, Eurasian, Nazca, and Arabian are examples of which thing?

- A) Tectonic plates
- B) Tornadoes
- C) Jet streams
- D) Asteroids

Question 50 of 50

Which of the following scientists is best known for their contributions to primatology after having studied chimpanzees for decades?

- A) Anthony Fauci
- B) Edward Jenner
- C) Jane Goodall
- D) Max Planck