

## SCIENCE QUIZ PART-3

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**Question:** The Earth is surrounded by an insulating blanket of gases which protects it from the light and heat of the Sun. This insulating layer is called the...?

- 1. ☐ Lithosphere
- 2. ☐ Biosphere
- 3. ☐ Hydrosphere
- 4. ☒ Atmosphere

**Question:** Where is the Sea of Tranquility?

- 1. ☐ Near the Bermuda Triangle
- 2. ☒ On the Moon
- 3. ☐ In the Pacific Ocean

**Question:** Which rare element would you associate with Marie and Pierre Curie?

- 4. ☐ Uranium
- 5. ☐ Gold
- 6. ☒ Radium
- 7. ☐ Platinum

**Question:** The covalent bonds which hold amino acids together are called what?

- 1. ☒ Peptide bonds
- 2. ☐ Aminic bonds
- 3. ☐ Ionic bonds
- 4. ☐ Atomic bonds

**Correct Answer**

**Peptide bonds enable amino acids to form chains of extremely long length.**

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**Question:** Valine, Alanine, Glycine, and Threonine are all examples of what?

- 1. ☐ Carbohydrates
- 2. ☒ Amino acids
- 3. ☐ Bases
- 4. ☐ Nucleic acids

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### Correct Answer

Amino acids are the building blocks of proteins and are classified as monomers.

**Question:** Cholesterol is an example of what type of lipid?

- 1. ☐ Fat
- 2. ☐ Oil
- 3. ☒ Sterol
- 4. ☐ Phospholipid

### Correct Answer

A sterol is a lipid which is important in the building of cellular substances and helps send chemical messages from one area to another.

**Question:** What is the more common name for a polymer of amino acids?

- 1. ☐ Carbohydrate
- 2. ☐ Enzyme
- 3. ☐ Sugar
- 4. ☒ Protein

### Correct Answer

A protein is an organic compound which contains nitrogen, carbon, hydrogen, and oxygen compounds. It is composed of 100's to 1,000's of amino acids.

**Question:** What is an oily or waxy organic compound called?

- 1. ☐ Fatty acid
- 2. ☐ Phospholipid
- 3. ☒ Lipid
- 4. ☐ Sterol

### Correct Answer

A lipid can be used to store excess energy or sugar, to produce biological membranes, and to help send chemical messages from one area to another.

**Question:** What is the name given to the green pigment in plants?

- 1. ☒ Chlorophyll
- 2. ☐ Stomata
- 3. ☐ Starch

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4. ☐ Tendrils

**Question:** Which of the following is a parasite?

1. ☐ Zebra  
2. ☐ Wolves  
3. ☒ Ringworm  
4. ☐ Pigs

**Question:** Which of the following helps keep body cool?

1. ☐ Respiration  
2. ☐ Urination  
3. ☐ Mastication  
4. ☒ Perspiration

**Question:** What is located at the center of the Milky Way?

1. ☐ Gamma rays  
2. ☒ A supermassive black hole  
3. ☐ A supernova  
4. ☐ Gas clouds

**Correct Answer**

**Scientists believe that Sagittarius A, the center of the galaxy, is a supermassive black hole**

**Question:** How many stars are in the disk of the Milky Way?

1. ☐ The number you can see On a clear night  
2. ☐ 1 million  
3. ☐ 100,000  
4. ☒ 100 billion

**Correct Answer**

**Scientists estimate that 100 billion stars are in the Milky Way's disk.**

**Question:** Where are the oldest stars in the galaxy located?

1. ☐ Black holes

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- 2. ☒ Halo and bulge
- 3. ☐ Spiral arms
- 4. ☐ Bulge only

### Correct Answer

The oldest stars are located in the halo and the bulge.

**Question:** The Sun is \_\_\_\_\_???

- 1. ☐ Red giant
- 2. ☒ A Population 1 star
- 3. ☐ A Population 2 star
- 4. ☐ Made of 99.9% of Hydrogen & Helium

### Correct Answer

The Sun is a Population 1 star because of its location in the disk and its amount of heavy elements.

**Question:** What is the overall shape of the Milky Way?

- 1. ☐ Sphere
- 2. ☐ Straight line
- 3. ☐ Oval
- 4. ☒ Disk

### Correct Answer

The Milky Way is a disk-shaped galaxy.

**Question:** Hay fever is caused by the male sex cells of certain plants. These male sex cells are called \_\_\_\_\_?

- 1. ☒ Pollen
- 2. ☐ Ovules
- 3. ☐ Ovary
- 4. ☐ Bees

**Question:** In flowering plants, reproduction involves the creation of...?

- 1. ☐ Pollen

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- 2. ☒ Seeds
- 3. ☐ Conifers
- 4. ☐ Spor

**Question:** What we call the female cells in flowering plants?

- 1. ☒ Ovules
- 2. ☐ Ovary
- 3. ☐ Bees
- 4. ☐ Pistil

**Question:** What part of a flowering plant is important for reproduction?

- 1. ☒ Flower
- 2. ☐ Leaves
- 3. ☐ Stems
- 4. ☐ Roots

**Question:** Which of the following is not a form of an electromagnetic wave?

- 1. ☐ X-rays
- 2. ☐ Microwave oven
- 3. ☒ Water
- 4. ☐ Warmth radiating from a radiator

**Question:** Maxwell's equations describe what?

- 1. ☐ All electric and magnetic phenomena
- 2. ☐ The dynamo effect
- 3. ☒ Electromagnetism
- 4. ☐ All of the above

**Question:** Who was the first scientist to promote the idea that the Earth goes around the Sun?

- 1. ☐ Johannes Kepler
- 2. ☒ Nicolaus Copernicus
- 3. ☐ Tycho Brahe

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4. ☐ Isaac Newto

**Question:** Who was the first astronomer to view Saturn's rings?

1. ☐ Kepler  
2. ☐ Copernicus  
3. ☒ Galileo  
4. ☐ Hershel

**Question:** What is  $E=mc^2$ ?

1. ☐ Expanding universe theory  
2. ☒ Theory of relativity  
3. ☐ Theory of time  
4. ☐ Big Bang theory

**Question:** How fast does the sun travel around the center of the galaxy?

1. ☒ 150 miles/second  
2. ☐ 150 miles/minute  
3. ☐ 150 miles/hour  
4. ☐ 150 miles/day

**Correct Answer**

Although it takes more than 10,000,000 years for the sun to make one circuit of the galaxy, the galaxy is so large that it must travel at almost 150 miles/second to cover the distance in that time.

**Question:** Of the following peoples, who are \*currently\* being affected the most by increasing temperatures?

1. ☒ Inuit Peoples (Eskimos)  
2. ☐ Latin Americans  
3. ☐ Australian Aborigines  
4. ☐ Asian Pacific Islanders

**Correct Answer**

Again, the clearest sign of long-term warming is being detected in the polar regions. This is especially true in the Arctic, where many indigenous peoples have built a way of life around the challenging frigid conditions. This way of life is now being affected. However, if trends continue, all peoples of the world will be affected by global warming.

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**Question:** Where are some of the clearest, most early signs of a global warming phenomenon being observed?

- 1. ☐ Indonesia
- 2. ☒ The Arctic
- 3. ☐ Equatorial Africa
- 4. ☐ Central America

**Correct Answer**

Temperatures around the Equator remain relatively stable, regardless of the time of year, and conditions there continue to be stable. However, it is at the poles where a long-term warming trend is being observed most clearly. In addition to weather observations, shrinking polar ice caps and anecdotal evidence from indigenous peoples of the Arctic point to unmistakable climate change

**Question:** Which of these can possibly be causing the increase in temperatures being observed around the world?

- 1. ☐ Increased solar activity
- 2. ☐ Man-made pollution
- 3. ☒ Both of these
- 4. ☐ Neither of these

**Correct Answer**

Scientists do not agree as to the reason behind the observed increase in temperatures. Many attribute the temperature increases to the pollution produced by our industries. However, some point to increasing solar activity as being responsible. As the saying goes, "the jury is still out" on this one.

**Question:** Which planet once had a 'Great Dark Spot' before it disappeared in 1995?

- 1. ☒ Neptune
- 2. ☐ Saturn
- 3. ☐ Jupiter
- 4. ☐ Mars

**Question:** The value of Pi was calculated as 3.1416 by...

- 1. ☒ Aryabhatta
- 2. ☐ Budhayana
- 3. ☐ Bhaskara

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4. ☐ Brahmagupta

**Question:** In Mathematics, India's most precious gift to the world is...

1. ☒ Zero  
2. ☐ Value Of Pi  
3. ☐ Decimal System  
4. ☐ Pythagorus Theorem

**Question:** 'Charaka Samhita' is considered as the first treatise on...

1. ☒ Health And Medicine  
2. ☐ Sexology  
3. ☐ Astronomy  
4. ☐ Astrology

**Question:** The National Science Day is celebrated on...

1. ☐ January 14  
2. ☒ February 28  
3. ☐ March 31  
4. ☐ August 17

**Question:** Which of the following is considered as the earliest school of medicine known to humans?

1. ☐ Siddha  
2. ☒ Ayurveda  
3. ☐ Homeopathy  
4. ☐ Unani

**Question:** The National Geophysical Research Institute is located at...

1. ☐ New Delhi  
2. ☐ Kolkata  
3. ☐ Mumbai  
4. ☒ Hyderabad



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**Question:** What non-profit organization is made up of worldwide ham radio operators that use their own membership-supported satellites?

- 1. ☒ AMSAT
- 2. ☐ GLOBALSAT
- 3. ☐ HAMSAT
- 4. ☐ FUTURESAT

**Correct Answer**

**AMSAT is an anagram for the Radio Amateur Satellite Corporation. AMSAT members have developed over 40 satellites with more to come in the future.**

**Question:** The first weather satellite was launched on February 17, 1959. What was the name of this satellite?

- 1. ☐ TIROS-2
- 2. ☐ Vanguard 1
- 3. ☐ Vanguard 2
- 4. ☐ TIROS-1

**Correct Answer**

**Vanguard 2 was designed to measure cloud cover, however, this satellite was poor in collecting data as a poor axis and rotation kept it from collecting meaningful information. TIROS-1 which was launched by NASA in 1960, was the first successful weather satellite and operated for 78 days.**

**Question:** Which of the following are designed for observation of planets, galaxies, and outer space objects?

- 1. ☐ Reconnaissance Satellites
- 2. ☐ Communications Satellites
- 3. ☐ Navigation Satellites
- 4. ☒ Astronomical Satellites

**Correct Answer**

**Astronomical satellites have allowed scientists, astronomers, and astrophysicists to observe and analyze our galaxy in great detail. Many satellites have x-ray and infra-red sensors that allow for greater details than a simple telescope can provide.**

**Question:** Which is the smallest planet of our solar system?

- 1. ☐ Saturn
- 2. ☐ Jupiter

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- 3. ☒ Pluto
- 4. ☐ Neptune

### Correct Answer

**Contrary to popular opinion, Mercury is not the smallest planet. Pluto, the outermost planet, with a diameter of 1430 miles is the smallest planet of our solar system.**

**Question:** Which is the largest planet of our solar system?

- 1. ☐ Saturn
- 2. ☒ Jupiter
- 3. ☐ Pluto
- 4. ☐ Neptune

### Correct Answer

**Jupiter, with an equatorial diameter of 88,080 miles is the largest of the nine planets that revolve around the Sun. Its mass is approximately 320 times, and volume 1300 times that of the Earth. In other words, Jupiter could contain 1300 Earths.**

**Question:** Which is the Largest sea?

- 1. ☐ Black Sea
- 2. ☐ Mediterranean Sea
- 3. ☐ Dead Sea
- 4. ☒ South China Sea

**Question:** Largest ocean in the world

- 1. ☒ Pacific Ocean
- 2. ☐ South China Sea
- 3. ☐ Atlantic Ocean
- 4. ☐ Indian Ocean

### Correct Answer

**Pacific Ocean represents nearly half of all the world's oceans. Oceans represent 94% of the Earth's water.**

**Question:** Which is the highest waterfall?

- 1. ☐ Khône Falls
- 2. ☐ Tugela Falls

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- 3. ☒ Angel Falls
- 4. ☐ Niagara Falls

### Correct Answer

Angel Falls with a total drop of 3210 ft and the longest single drop of 2610 ft are located in Venezuela on the river Carrao. They are named after the American Pilot Jimmy Angel who recorded them in his log book while flying over them in 1935. The Tugela Falls in South Africa with a drop of 3110 ft are the second highest waterfall.

**Question:** Which is the smallest continent?

- 1. ☒ Australia
- 2. ☐ Asia
- 3. ☐ America
- 4. ☐ Africa

### Correct Answer

The Australian continent consists of Australia along with New Zealand, Tasmania, Papua New Guinea and the Pacific Islands. It is also sometimes referred to as the Oceania.

**Question:** Which planet is closest to the Earth?

- 1. ☒ Venus
- 2. ☐ Mercury
- 3. ☐ Mars
- 4. ☐ Sun

### Correct Answer

Venus is at times about 25 million miles away from the Earth. Mars is at a distance of 34 million miles.