

SCIENCE QUIZ QUESTIONS AND ANSWERS FOR CLASS 9

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Paragraph 1:

Question 1: What is the scientific definition of matter? **Answer:** Matter is anything that has mass and occupies space.

Question 2: Name the three states of matter. **Answer:** Solid, liquid, and gas

Paragraph 2:

Question 3: What is the difference between a chemical change and a physical change? **Answer:** A chemical change creates a new substance, while a physical change does not alter the chemical composition of the substance.

Question 4: What is the name of the smallest unit of an element that retains the properties of that element? **Answer:** Atom

Paragraph 3:

Question 5: What is the periodic table? **Answer:** A tabular arrangement of chemical elements organized by their atomic number, electron configuration, and recurring chemical properties.

Question 6: Which element has the highest atomic number? **Answer:** Oganesson (Z = 118)

Paragraph 4:

Question 7: What is the difference between a conductor and an insulator? **Answer:** A conductor allows electricity to flow through it easily, while an insulator does not.

Question 8: What is the name of the force that attracts objects toward each other? **Answer:** Gravitational force

Paragraph 5:

Question 9: What is the speed of light? **Answer:** Approximately 3×10^8 meters per second

Question 10: Which scientist is credited with developing the theory of relativity? **Answer:** Albert Einstein

What is the Surya Siddhanta text? The Surya Siddhanta text is composed of verses made up of two lines, each broken into two halves, or pāds, of eight syllables each. As per al-Biruni, the 11th-century Persian scholar and polymath, a text named the Surya Siddhanta was written by Brahmagupta, a student of Aryabhatta I.

Is Surya Siddhanta accurate? The Wikipedia article (your link) explains how the astronomical knowledge in the book is based on ancient Greek astronomy. The table in the article lists the parameters from the Surya Siddhanta together with Greek and modern value. It looks to me that the the Surya Siddhanta has similar accuracy as the Greek.

Who wrote the book Surya Siddhant? The Surya Siddhanta is the name of a Sanskrit treatise in Indian astronomy from the late 4th-century or early 5th-century CE. The book was written by Aryabhatta.

What is the content of Surya Siddhanta? It also contained a description of several astronomical instruments: the gnomon (shanku-yantra), a shadow instrument (chhAyA-yantra), possibly angle-measuring devices, semicircular and circular (dhanur-yantra / chakra-yantra), a cylindrical stick yasti-yantra, an umbrella-shaped device called the chhatra-yantra, and ...

Who is the mathematician of Surya Siddhanta? Aryabhatta was a great mathematician and astronomer. He wrote the book Aryabhatiya and Surya

Siddhanta. It deals with mathematics and astronomy. It explains scientifically the occurrence of solar and lunar eclipses.

Does Vedas say the sun revolves around Earth? The Vedas say otherwise. It is clearly mentioned that the Earth and all the other planets revolve around the Sun and not the other way around. "This earth is devoid of hands and legs, yet it moves ahead. All the objects over the earth also move with it.

What is the difference between Surya Siddhanta and Drik Siddhanta? Drik Siddhanta or treatise is the modern version of Surya Siddhanta, wherein the planetary positions are taken from Astronomical data. So Drik Siddhanta is accurate for horoscope making only. For definition of the very time in terms of Yugas etc, Surya Siddhanta excels.

Is the Earth round according to Hinduism? The word is a compound word formed by combining two words, bhū, "the earth," and maṇḍala, "circular, round; circle." The literal meaning of bhū- maṇḍala is therefore "earth-circle." As such, there is no doubt that the idea of a round earth is present in the Purāṇas.

Is Surya Siddhanta heliocentric or geocentric? All astrology is geocentric, insofar as it uses planetary positions as seen from Earth. For that matter, Earth-based astronomers also use geocentric coordinates to locate objects in the sky.

What is the Sanskrit book for astronomy? Rājamaṇḍakā is a treatises in Sanskrit devoted to astronomical computations. Traditionally the authorship of the treatise is attributed to Bhojarāja (d. 1055) of the Rajput Paramāra dynasty, rulers of the Malwa region in central/western India.

Who is Surya in Ramayana? In the Mahabharata and Ramayana, Surya is represented as the spiritual father of Rama and Karna (protagonists of the Ramayana and the Mahabharata, respectively). Surya was a primary deity in veneration by the characters of the Mahabharata and Ramayana, along with Shiva.

What is the Surya Siddhanta trigonometry? "Suryasiddhanta" is an ancient Hindu text on astronomy and mathematics, believed to have been written in the 4th or 5th century AD. It contains principles of trigonometry, including the values of trigonometric functions for different angles, as well as theorems on triangles and

circles.

How far is Surya Siddhanta from the sun? This is what modern research tells: Diameter of Sun: 1.391016 million Km. Average Distance between Sun and Earth: 149.6 million Km. Calculation as per Surya Siddhanta: $1.391016 \times 10^8 = 150$ Kms.

What is the speed of light according to Surya Siddhanta? According to the Surya Siddhanta, an ancient Indian astronomical work, the sunlight moves at a speed of 2,202 yojanas in 0.5 nimisha. One yojana is nine miles. 2,202 yojanas amount to 19,818 miles. One nimisha is equal to $\frac{16}{75}$ of a second.

What do you mean by Siddhanta? 'established end') is a Sanskrit term denoting the established and accepted view of any particular school within Indian philosophy; literally "settled opinion or doctrine, dogma, axiom, received or admitted truth; any fixed or established or canonical text-book on any subject" (from siddha, adj. mfn.

What is the summary of Surya Siddhanta? Short Description. The Surya Siddhanta is one of the earliest astronomical texts of the ancient India. Under the tradition of Upanishads, the Surya Siddhanta reveals the knowledge of the planetary motion of the solar system directly given by the Sun god to Mayasura, subsequently passed down in oral form.

What is astronomy called in Sanskrit? ?????? (jyoti?a) Astronomy and astrology.

Who discovered zero? Aryabhata, a great astronomer of the classic age of India was the one who invented the digit "0" (zero) for which he became immortal but later on is given to Brahmagupta who lived around a century later 22, another ancient Indian mathematician.

Did Einstein say the sun revolves around the earth? Even in Einstein's General Relativity, the Earth Orbits the Sun (& the Sun Does Not Orbit the Earth) – Of Particular Significance.

Who wrote the book Surya Siddhanta? Notes: "Surya Siddhant" was written by Aryabhata. It is a book or text about astronomy. It is in Sanskrit language and has 14 chapters.

Is it wrong to say the sun revolves around the earth? Muller argues that Einstein's theory of general relativity implies that you can view the Sun as orbiting the Earth if you like, or that both the Sun and Earth orbit Venus, or a random point in space, or anything else for that matter.

What is the difference between Surya Siddhanta and Drik Siddhanta? Drik Siddhanta or treatise is the modern version of Surya Siddhanta, wherein the planetary positions are taken from Astronomical data. So Drik Siddhanta is accurate for horoscope making only. For definition of the very time in terms of Yugas etc, Surya Siddhanta excels.

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What is the oldest text that has mentioned the science of yoga? Yoga-like practices were first mentioned in the ancient Hindu text known as Rigveda.

What is the Surya Siddhanta mayasura? The Surya Siddhanta is one of the earliest astronomical texts of the ancient India. Under the tradition of Upanishads, the Surya Siddhanta reveals the knowledge of the planetary motion of the solar system directly given by the Sun god to Mayasura, subsequently passed down in oral form.

SQL Practice Exercises with Solutions PDF from Oxmoon: A Comprehensive Guide

Oxmoon offers a valuable resource for practicing SQL with their collection of practice exercises and solutions. This PDF provides a wide range of exercises covering various SQL concepts and complexities, making it an ideal tool for self-paced learning and skill assessment.

Q1: Retrieve Data from a Specific Column

```
SELECT [column_name]
FROM [table_name];
```

Solution: This query retrieves all values in the specified column from the given table.

Q2: Aggregate Data Using SUM

```
SELECT SUM([column_name])  
FROM [table_name];
```

Solution: This query calculates the sum of all values in the specified column in the table.

Q3: Filter Data Using a WHERE Clause

```
SELECT *  
FROM [table_name]  
WHERE [condition];
```

Solution: This query retrieves all rows from the table that meet the specified condition in the WHERE clause.

Q4: Perform Data Manipulation

```
INSERT INTO [table_name] ([column_name])  
VALUES ([ "value" ] );
```

Solution: This query inserts a new row into the table with the specified value for the given column.

Q5: Join Two Tables

```
SELECT *  
FROM [table1] INNER JOIN [table2]  
ON [table1].[column_name] = [table2].[column_name];
```

Solution: This query joins two tables using a common column and retrieves all matching rows from both tables.

Oxmoon's SQL practice exercises with solutions PDF covers a comprehensive range of topics, including data retrieval, aggregation, filtering, data manipulation, and table joins. With detailed solutions provided for each exercise, this resource is an excellent tool for building proficiency in SQL and preparing for various certification exams.

Term 2 Test May 2014: Geography Paper for Grade 12

The Term 2 Geography paper for Grade 12 in May 2014 consisted of two sections: Section A and Section B. Section A tested students' knowledge of geographic concepts and themes, while Section B focused on the application of geographic knowledge to specific real-world scenarios.

Section A: Concepts and Themes

Q1: Define the term 'spatial distribution' and provide an example. A: Spatial distribution refers to the pattern of how a feature varies across a geographic area. For instance, the population density of a country shows the spatial distribution of people within its boundaries.

Q2: Explain the concept of 'scale' in geography. A: Scale refers to the relationship between the size of a geographic feature on a map or other representation and its actual size on the ground. Scale can be represented as a fraction (e.g., 1:50,000) or verbally (e.g., "large-scale" or "small-scale").

Q3: Describe the factors that influence the formation of landforms. A: Landforms are shaped by various factors, including tectonic processes (e.g., plate movement), erosion (e.g., by water, wind), and deposition (e.g., by glaciers).

Section B: Application of Geographic Knowledge

Q4: Describe a case study of a successful sustainable development initiative. A: Sustainable development aims to meet present needs without compromising the ability of future generations to meet their own needs. Case studies of successful initiatives may include renewable energy projects, community-based conservation efforts, or urban planning strategies that prioritize environmental sustainability.

Q5: Analyze the geographic factors that influence population distribution in a specific region. A: Population distribution is influenced by a variety of geographic factors, such as climate, landforms, natural resources, and economic opportunities. Students were expected to select a specific region and discuss how these factors have shaped its population distribution.

By answering these questions accurately, Grade 12 students demonstrated their understanding of geographic concepts, their ability to apply geographic knowledge to real-world scenarios, and their critical thinking skills in analyzing geographic information.

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