

Reasoning and Aptitude Test

Pg.No. 56

Pick the pair which is related in the same way to the words given in the question .

1. Comedy : Laughter :: Tragedy: Sadness
2. Duck : Drake :: Bee : Drone
3. Caws : Crow :: Bleats : Goat
4. Flock : Sheep :: Sloth : Bears
5. Covey : Partridges :: Clutch : Chickens
6. Ovine : Sheep :: Feline : Cats
7. Kroner : Norway :: Taka : Bangladesh
8. Birds : Avian :: Dogs : Canine

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What are These?

1. What is Kelp?
Ans- c. A kind of seaweed
2. What is an acorn?
Ans- b. Fruit of the oak
3. What is a Kernel?
Ans- a. Inner part of the seed
4. What is an Addax?
Ans- a. An antelope
5. What is an Adder?
Ans- b. A poisonous snake
6. What is a holt?
Ans- d. Otter's den
7. What is durian ?
Ans- a. A Fruit
8. What is a giant puffball?
Ans- c. A type of fungus
9. What is an iguana?
Ans- a. reptile
10. What is a giant clam?
Ans- b. The largest shellfish

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Mathematical Glossary

Name the following.

1. The opposite of a number or its negative.
Additive inverse
2. An algebraic expression that consists of two terms.
Binomial
3. A line segment that connects two points on a circle.
Chord
4. The measurement unit of an angle.
Degree
5. A relationship between symbols and / or numbers that is balanced.
Equation

6. A symbol which expresses part of a whole.
Fraction
7. Part of mathematics concerned with the study of lines, angles, shape and their properties.
Geometry
8. The side opposite to the 90 degree angle in a right triangle.
Hypotenuse
9. Lines that come together at a point.
Intersecting lines
10. An algebraic equation in which each term is either a constant or the product of a constant and the first power of a single variable. For example, $x=6$, $y = 6x + 3$.
Linear equation
11. A rectangular array of numbers, which can be added, subtracted and multiplied.
Matrix
12. A set of positive integers.
Natural numbers
13. A number that is the sum of its divisors(excluding the number itself)For example, $28 = 1 + 2 + 4 + 7 + 14$
Perfect numbers
14. A polynomial equation with a degree of 2 in the form of $ax^2 + bx + c = 0$
Quadratic equation
15. The numbers that can be expressed as a fraction a/b of two integers.
Rational numbers
16. The correspondence in size, form or arrangement of parts on a plane or a line.
Symmetry
17. An algebraic equation with three terms like in $2x + 3y + 4z$ or $3x^3 + 2x^2 + x$
Trinomial
18. A physical quantity having magnitude and direction.
Vector
19. Counting numbers from Zero to infinity.
Whole numbers
20. The horizontal number line in the Cartesian Coordinate System.
X- axis
21. The vertical number line in a Cartesian Coordinate System.
Y-axis

Pg. no . 60

Famous Indian Mathematicians

1. He discovered the position of the nine planets and stated that these planets revolve around the sun. He also stated the correct number of days in a year is 365 . Aryabhatta
2. The significant contribution of this mathematician was the introduction of zero (0) to mathematics which stood for nothing . Brahmagupta
3. His important contributions include Hardy – Ramanujan – Littlewood circle method in number Theory. Roger – Ramanujan’s identities in partition of numbers, work on algebra of inequalities, elliptical function , etc. Srinivasa Ramanujan .
4. He is the founder of Indian Statistical Institute as well as the National Sample Surveys.- P.C. Mahalanobis
5. He is a well –known statistician, famous for his 'Theory of Estimation'. C.R. Rao
6. He is known for his collaboration with Albert Einstein. He worked on Quantum Mechanics in the early 1920s. - Satyendranath Bose
7. He found out that any number divided by zero is infinity and that the sum of any number and infinity is also infinity. He is famous for his book ‘Siddhanta Siromani’. Bhaskara

Model Test paper - 2

A. Name the following .

1. Deepa Malik
2. P.V. Sindhu
3. Cristiano Ronaldo

B. Match the following.

- | | |
|--|--------------------|
| 1. Measurement unit of an angle | b. Degree |
| 2. A symbol that expresses part of a whole | a. Fraction |
| 3. Counting numbers from 0 to infinity | d. whole numbers |
| 4. A set of positive integers | c. Natural numbers |

C. Name the following personalities.

1. World's first female amputee mountain climber who scaled Mt. Everest - Arunima Sinha
2. First woman to cross the Atlantic Ocean by air alone - Amelia Earhart
3. The football player known as CR7 - Cristiano Ronaldo

D. Give one word answers.

1. An algebraic expression that consists of two terms **Binomial**
 2. Pollutant responsible for marble cancer **Sulphur Dioxide**
 3. World's largest non-renewable source of energy **Petroleum**
 4. The search engine launched by Microsoft company in 2009 **Bing**
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