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On the Go...



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The book includes an exclusive collection of more than **1100 informative, interesting and brain teasing questions** along with their **answers** on:

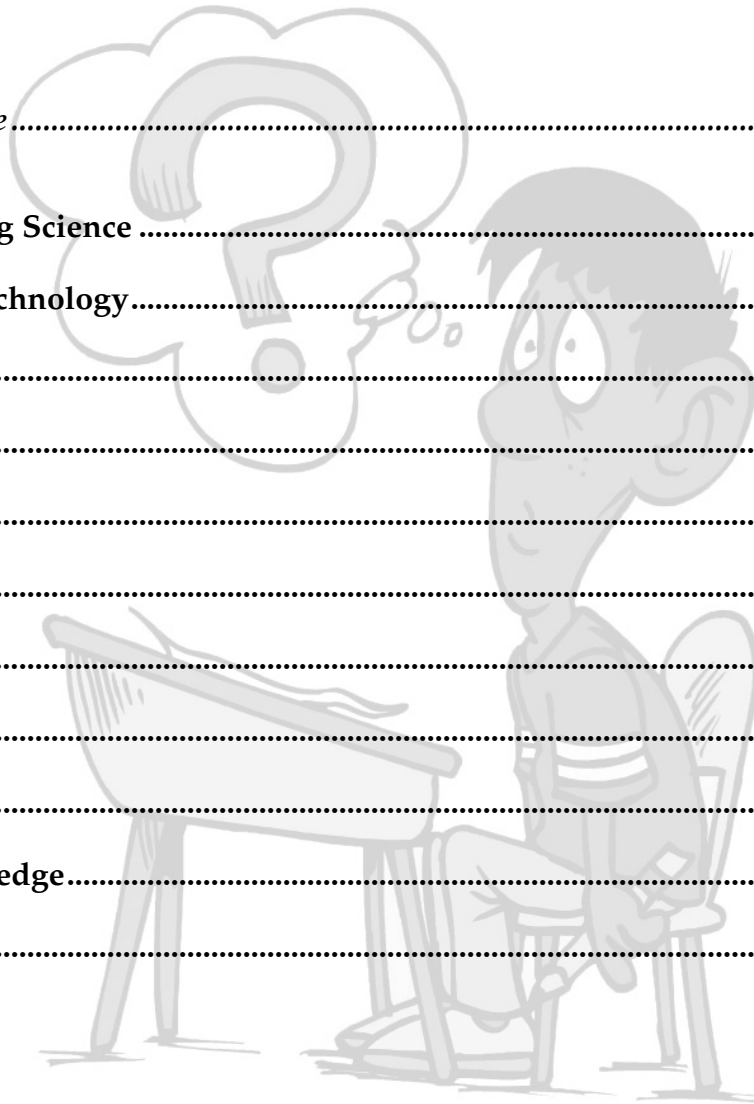
- ❖ Physical and Life Sciences
- ❖ Information Technology
- ❖ Literature
- ❖ History
- ❖ Geography
- ❖ Mathematics
- ❖ Environment
- ❖ General Knowledge
- ❖ Sports
- ❖ Cinema
- ❖ Awards & Honours, etc

The book aims to educate and enlighten all its readers, particularly the student section and the ones studying hard to crack various competitive examinations, such as the *Civil Services Examinations*, *Common Admission Test (CAT)* conducted by the Indian Institutes of Management as a pre-requisite for admission to various management programmes of IIMs and other non-IIM institutions, *International English Language Testing System (ELTS)*, *Test of English as a Foreign Language (TOEFL)*, *Graduate Management Admission Test (GMAT)*, etc.

Hope the book helps to enhance your knowledge and serves its purpose well!

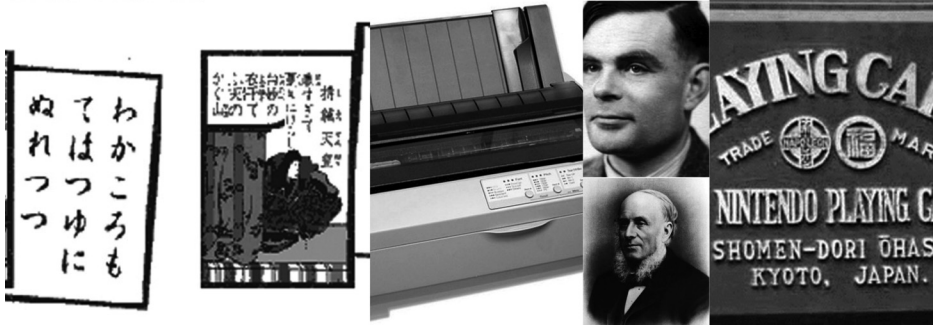
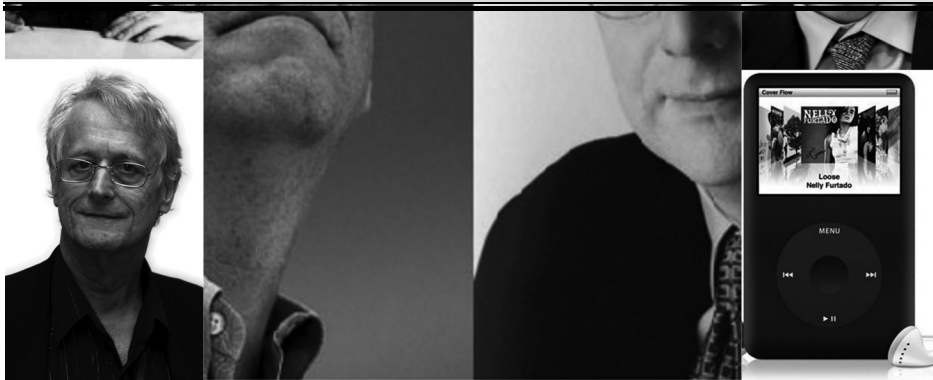
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SCIENCE & LIVING SCIENCE



Q-1. What is made up of a variety of materials such as Carbon and inhibits the flow of current?

Ans. Resistor



Carbon resistor

Q-2. Global warming is due to increased production of which gas?

Ans. Carbon dioxide

Q-3. Which acid is present in lemon?

Ans. Citric acid

Q-4. Brass is an alloy of which two metals?

Ans. Copper and Zinc

Q-5. Which is the hardest natural substance found in the world?

Ans. Diamond

Q-6. Which substance helps in removing the permanent hardness of the water?

Ans. Sodium Carbonate

Q-7. Which is the most commonly used bleaching agent?

Ans. Chlorine

Q-8. Which gas is used in cigarette lighter?

Ans. Butane

Q-9. What is the common name of Sodium Bicarbonate?

Ans. Baking Soda

Q-10. What are the atoms of the same element having the same atomic numbers but different atomic weights called?

Ans. Isotopes

Q-11. What is the main constituent of soap?

Ans. Sodium Hydroxide

Q-12. Name a fertilizer that contains maximum amount of Nitrogen.

Ans. Urea

Q-13. Which compound is called Oil of Wintergreen?

Ans. Methyl Salicylate

Q-14. What is alum?

Ans. Potassium Aluminium Silicate

Q-15. Name an alloy of copper, antimony and tin.

Ans. Babbitt metal

Q-16. Famous New Zealand scientist Ernest Rutherford was awarded a Nobel Prize in which field?

Ans. Chemistry



Ernest Rutherford

Q-17. What is the name given to substances that are initially involved in a chemical reaction?

Ans. Reactants

Q-18. What is the fourth most abundant element in the universe in terms of mass?

Ans. Carbon

Q-19. Is sodium hydroxide (NaOH) an acid or base?

Ans. Base

Q-20. At room temperature what is the only metal that is in liquid form?

Ans. Mercury

Q-21. What is the centre of an atom called?

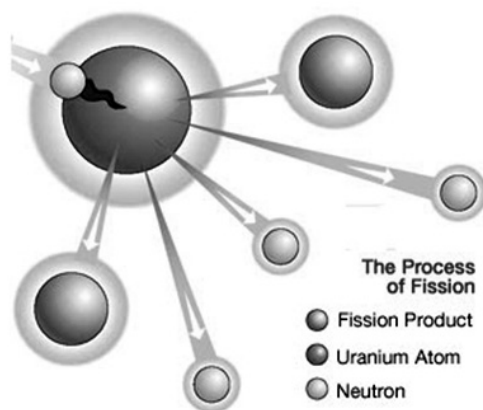
Ans. Nucleus

Q-22. K is the chemical symbol for which element?

Ans. Potassium

Q-23. A nuclear reaction where the nucleus of an atom splits into smaller parts is known as nuclear fission or nuclear fusion?

Ans. Nuclear Fission



Nuclear fission reaction

Q-24. What is the chemical symbol for gold?

Ans. Au

Q-25. What orbits the nucleus of an atom?

Ans. Electrons

Q-26. H₂O is liquid, but what is H₂S?

Ans. Gas

Q-27. Which element on adding to natural rubber makes it less sticky in hot weather and less hard in cold weather?

Ans. Sulphur

Q-28. What is a raincoat made up of?

Ans. Polychloroethene

Q-29. Which element can easily form chains?

Ans. Carbon

Q-30. Which element is used as an antichlor?

Ans. SO₂

Q-31. Which catalyst used in the manufacture of ammonia from nitrogen and hydrogen?

Ans. Iron

Q-32. Which element can be toxic to plants growing in soils that are high in acidity?

Ans. Aluminum

Q-33. Glass is made out of what?

Ans. Sand

Q-34. Which drug is present in cola drinks?

Ans. Caffeine

Q-35. Which drug is present in tobacco?

Ans. Nicotine

Q-36. Which element is present in the least amount in a living body?

Ans. Manganese

Q-37. What is the most common natural source for sulphur?

Ans. Volcanic region

Q-38. Which when dissolved in water gives hissing sound?

Ans. Limestone

Q-39. Which gas is also called Stranger Gas?

Ans. Xenon

Q-40. What are Rubies and Sapphires chemically known as?

Ans. Aluminium Oxides

Q-41. Which substance is used as a mordant in dyeing and tanning industry?

Ans. Magnesium Sulphate

Q-42. Mixture of which pairs of gases is the cause of occurrence of most of the explosion in mines?

Ans. Methane and air

Q-43. Which common device works on the basis of the principle of mutual induction?

Ans. Transformer



Transformer

Q-44. DC current can be controlled by which component?

Ans. Resistor

Q-45. Mesons are found in _____.

Ans. Cosmic rays

Q-46. Which substance is used as a moderator in nuclear reactor?

Ans. Graphite

Q-47. In an atomic nucleus, neutrons and protons are held together by _____.

Ans. Exchange forces

Q-48. Due to what Television signal cannot be received generally beyond a particular distance.

Ans. Curvature of earth

Q-49. What is the main component of biogas and natural gas?

Ans. Methane

Q-50. Aviation fuel for Jet aeroplanes consists of purified _____.

Ans. Kerosene

Q-51. Who invented Bakelite?

Ans. Leo Hendrik Baekeland

Q-52. Cryogenic engines find application in _____.

Ans. Rocket technology

Q-53. What is the main constituent of coal gas?

Ans. Methane

Q-54. A red object when seen through a thick blue glass appears of which colour?

Ans. Black

Q-55. On what conservation laws does a rocket work?

Ans. Angular momentum



Rocket launching

Q-56. Where is the Central Arid Zone Research Institute (CAZRI) located?

Ans. Jodhpur

Q-57. Which rare element would you associate with Marie and Pierre Curie?

Ans. Radium

Q-58. What process used to separate the different components of oil?

Ans. Fractional Distillation

TRIVIA

The process Fractional Distillation is based on the fact that the different components of oil have different boiling points. In this process, oil is heated in a furnace to 400 degree Celsius (752°F) and it vapourises. The vapours are introduced into a tall fractionating column. There the component vapours condense one by one at different heights. The vapours with lower boiling points condense at the top and those with higher boiling points condense near the bottom. The various fractions are then collected from the column. Some of them are – Petroleum gas, gasoline, kerosene, diesel, fuel oil, lubricating oil, wax and asphalt.

Q-59. Which variety of coal contains the highest percentage of carbon?

Ans. Anthracite

Q-60. If you wanted to lighten your hair at home, what is the active ingredient used the dye preparation that will lighten your hair?

Ans. Hydrogen Peroxide

Q-61. Aspirin can be found in many household medicine cabinets. But what is it chemically?

Ans. Acetylsalicylic acid

Q-62. “Antifreeze” is used in car radiators to stop the liquid that cools the engine from freezing when it gets cold outside. Water is one component of antifreeze; what is the other main component?

Ans. Ethylene glycol

Q-63. What is dry ice?

Ans. Solid Carbon Dioxide

TRIVIA

“Dry ice” is solid carbon dioxide (CO₂). Carbon dioxide freezes at -78.5 degrees Centigrade. When dry ice “melts” it undergoes a process called sublimation. This means that it is converted from a solid directly to a gas, bypassing the intermediate liquid stage. This is where the name “dry ice” comes from – when it melts, you never get any liquid (unlike water ice), hence it’s “dry”.

Q-64. What is the major component of the adhesive–woodworking glue also known as PVA glue?

Ans. Poly Vinyl Alcohol

Q-65. What is it in nail polish remover that does the polish removing?

Ans. Acetone

Q-66. What is the main component of household bleach?

Ans. Sodium hypochlorite

Q-67. Methylated spirits is a very common household chemical, but what is its main component?

Ans. Ethanol

Q-68. Which chemical compound occurs naturally in tea and coffee and is a popular additive to soft drinks?

Ans. Caffeine

Q-69. How many moons does Pluto have (found by year 2000)?

Ans. One

Q-70. Which planet orbits the sun at a speed of 110,000 kph?

Ans. Earth

Q-71. A meteorite struck Antarctica in 2004. It was 30 feet wide. How far away was the climate affected by this strike?

Ans. Other side of the planet

Q-72. In the 1990s, a spacecraft was designed to protect Earth from meteors, asteroids and comets. What was its name?

Ans. Clementine II

TRIVIA

Anything that might hit Earth is called a Near Earth Object.

Q-73. The most famous meteor shower is the Perseids. What is its other name?

Ans. Tears of Saint Lawrence

Q-74. What does Candela measure?

Ans. Luminous Intensity

Q-75. Which of the “rare” gases is most common in the atmosphere?

Ans. Xenon

Q-76. What type of storm has a central calm area, called the eye, which has winds spiraling inwardly?

Ans. Thunderstorm

Q-77. What is the pH of Acid rain?

Ans. 6

Q-78. Which two metals are mixed in manufacturing of stainless steel?

Ans. Chromium and iron

Q-79. How much body heat escapes from our body to cool off?

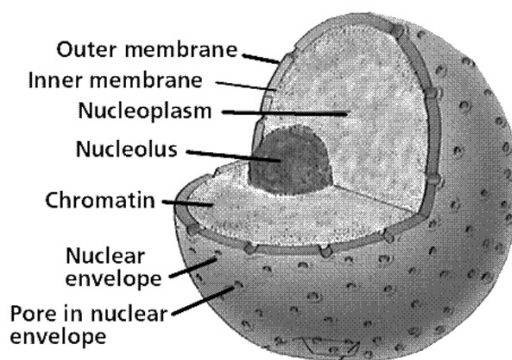
Ans. 80%

Q-80. What measurement unit microbiologists use when they want to measure something really small (like a bacterial cell)?

Ans. Micrometer

Q-81. What organelle is known as the ‘brain’ of the cell?

Ans. Nucleus



Cell structure

Q-82. A _____ beam is one whose rays remain the same distance apart.

Ans. Parallel

Q-83. Materials through which light cannot pass are known as _____.

Ans. Opaque

Q-84. What are those bodies called which radiate light?

Ans. Luminous

Q-85. Most of the magnetic power appears to be concentrated at certain points of a magnet. These points are called _____.

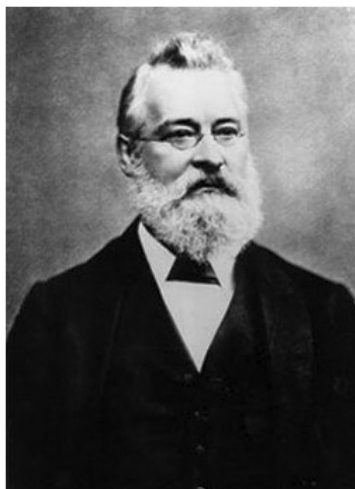
Ans. Poles

Q-86. The law that “the physical and chemical properties of elements are periodic functions of their atomic weights” was given by whom?

Ans. Mendeleev

Q-87. Who gave the Law of Octaves?

Ans. John Newlands



John Newlands

Q-88. With which metal does oxygen combine to form rust?

Ans. Iron

Q-89. Rocks that are rich in metals are known as _____.

Ans. Ores

Q-90. Which metal is often found in the pure state?

Ans. Gold

Q-91. Which gland is in the shape of pistol?

Ans. Pancreas

Q-92. Which organ produces bile juice?

Ans. Liver

TRIVIA

Liver produces around one litre of bile juice per day.

Q-93. Folic acid is also known as _____.

Ans. Vitamin M

Q-94. Which test is used to know colour blindness?

Ans. Ishihara

Q-95. Fear of water is known as _____.

Ans. Hydrophobia

Q-96. Aviophobia is fear of what?

Ans. Fear of flying

Q-97. Claustrophobia is fear of what?

Ans. Fear of confined spaces

TRIVIA

Paraskavedekatriaphobia or Paraskevidekatriaphobia or Friggatriskaidekaphobia is the fear of Friday the 13th.

Q-98. Which is the world's largest private international nature conservation organisation?

Ans. World Wide Fund for nature

Q-99. Which animal can look at two ways at the same time?

Ans. Chameleon



Chameleon

Q-100. Which Indian region is the only place in the world where the Asiatic Wild Ass is found?

Ans. Rann of Kachchh

Q-101. What is the gestation period of an African elephant?

Ans. 22 Months

Q-102. Which bird constructs the largest unit nest structure in the world?

Ans. Sociable Weaver

Q-103. Who wrote 'Origin of species'?

Ans. Charles Darwin

Q-104. Which animal is the main attraction in Assam's Kaziranga National Park?

Ans. The one-horned rhinoceros

Q-105. World Wildlife Fund was founded in which year?

Ans. 1961

Q-106. Who wrote the autobiographical book, My Life: My Trees?

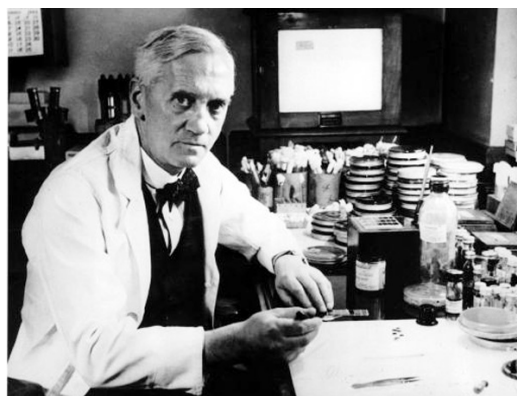
Ans. Richard St. Barbe Baker

Q-107. On which day World Oceans Day falls on?

Ans. June 8

Q-108. Who discovered Penicillin?

Ans. Alexander Fleming



Alexander Fleming

Q-109. Who discovered treatment for rabies?

Ans. Louis Pasteur

Q-110. Who discovered chloroform?

Ans. Simpson and Harrison

Q-111. Who discovered anti-polio vaccine?

Ans. Jonas E. Salk

Q-112. Who discovered the cause of beri beri disease?

Ans. Eijkman