| | 1. | The only vitamin | that contains cobalt is | S | | | | |
|---|---|---|---|---|--|--|--|--|
| | | (a) B ₁ | (b) B ₂ | $(c) B_6$ | (d) B_{12} | | | |
| | | Ans: (d) | | | | | | |
| | plays prope inclu | an essential role er functioning of yeding meats, fish, po | in the production of our nervous system. oultry, eggs and dairy | your red blood cells a Vitamin B12 is natural | water-soluble vitamin It and DNA, as well as the ly found in animal foods, | | | |
| | | ous system may als | = | ction in healthy red bl | ood cells (anaemia). The | | | |
| | symp | | om/nutrition/vitamin-l nin%20B12%2C%20a | o12-deficiency- also%20known%20as,% | %2C%20poultry%2C%20e | | | |
| | 2. | As the altitude increases, the temperatures decreases at the rate of N°F for every | | | | | | |
| | | (a) 200 feet | (b) 150 feet | (c) 400 feet | (d) 450 feet | | | |
| | | Ans: (b) | | AUL | | | | |
| | atmo decre | Note: Free convection, occurs when the environmental lapse rate (the rate of change of an atmospheric variable, such as temperature or density, with increasing altitude) of temperature decreases at a rate greater than 1°C per 100 metres (approximately 1 °F per 150 feet). This rate is called the adiabatic lapse | | | | | | |
| | 3. | Mother's milk is | preferred to cow's mil | k because it contains | | | | |
| (a) More lipids and less fats (b) Less lipids and more fats | | | | | | | | |
| | | (c) More fats and Ans: (d) | l more lipids | (d) Less fats and | l less lipids | | | |
| | | Note: In addition, the proteins, fats and calcium in whole cow's milk are more difficult for an infant to digest and absorb than the ones in breast milk . | | | | | | |
| | Mother's milk has all nutrients that are required by the infant to achieve optimal growth, brain and cognitive development. It also helps fight infections and illnesses like diarrhoea allergies and asthma. | | | | | | | |
| | 4. | . Normal body temperature of an adult is | | | | | | |
| 3 | | a. 34.4°C | b. 36.4°C | c. 33.4°C d. 37.0°C | C (98.40°F) | | | |
| | | Ans: d | | | | | | |
| | 5. | Which of the foll | vitamin B complex? | | | | | |
| | | (a) Thiamine | (b) Renitol | (c) Riboflavin | (d) Folic acid | | | |
| | | | sssfe | ep.com | | | | |

Ans: (b)

Note: Retinol, also known as vitamin A_1 -alcohol, is a vitamin in the vitamin A family found in food and used as a dietary supplement. As a supplement it is ingested to treat and prevent vitamin A deficiency, especially that which results in xerophthalmia

| vitam | in A deficiency, espec | ially that which | results in xerophtha | almia | | |
|-------|---|------------------|------------------------|---------------------------------|--|--|
| 6. | Why does a stick parand air? This is due | | water appear to be | broken at the junction of water | | |
| | (a) Scattering of light | t | (b) Reflection of li | ght | | |
| | (c) Refraction of ligh | t | (d) Both a and b ab | oove | | |
| | Ans: (c) | | | Q | | |
| 7. | Which of the follow from the earth's surfa | | epresents correctly t | he different atmospheric layers | | |
| | (a) Stratosphere, troposphere, tropopause, ionosphere | | | | | |
| | (b) Ionosphere, tropopause, troposphere, stratosphere | | | | | |
| | (c) Troposphere ,tropopause , stratosphere , ionosphere | | | | | |
| | (d) Stratosphere, troposphere, ionosphere, tropopause | | | | | |
| | Ans: (c) | | 4 | | | |
| 8. | The correct sequence | of States in des | cending order of the | ir area is | | |
| | (a) Rajasthan, Madhy | ya Pradesh, Mal | narashtra, Uttar Prade | esh | | |
| | (b) Madhya Pradesh, | Uttar Pradesh, I | Maharashtra, Rajasth | an | | |
| | (c) Uttar Pradesh, Madhya Pradesh, Rajasthan, Maharashtra | | | | | |
| | (d) Uttar Pradesh, Machya Pradesh, Maharashtra, Rajasthan | | | | | |
| | Ans: (a) | | | | | |
| 9. | At what temperature be exactly same | the readings in | the Centigrade and | Fahrenheit thermometers will | | |
| _ (| a. 40° | b. 0° | c40° | d34° | | |
| 5 | Ans: c | | | | | |
| | | | | | | |

- 10. The distance of the planets from the sun in the increasing order is
 - (a) Mercury, Venus, Earth, Mars
 - (b) Venus, Earth, Mars, Mercury
 - (c) Earth, Mars, Mercury, Venus

(d) Mercury, Venus, Mars, Earth

Ans: (a)

Note: The eight planets that orbit the (in order the sun are from sun): Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune. A belt of asteroids (minor planets made of rock and metal) lies between Mars and Jupiter. These objects all orbit the sun in roughly circular orbits that lie in the same plane, the ecliptic (Pluto is an exception; it has an elliptical orbit tilted over 17° from the ecliptic).

Easy ways to remember the order of the planets (plus Pluto) are the mnemonics: "My Very Educated Mother Just Shown Us Nine" .The first letter of each of these words represents a planet - in the correct order.

The largest planet is Jupiter. It is followed by Saturn, Uranus, Neptune, Earth, Venus, Mars, Mercury, and finally, tiny Pluto (the largest of the dwarf planets). Jupiter is so big that all the other planets could fit inside it.

The Inner Planets vs. the Outer Planets

The inner planets (those planets that orbit close to the sun) are quite different from the outer planets (those planets that orbit far from the sun).

- The inner planets are: Mercury, Venus, Earth, and Mars. They are relatively small, composed mostly of rock, and have few or no moons.
- The outer planets include: Jupiter, Saturn, Uranus, Neptune, and Pluto (a dwarf planet). They are mostly huge, mostly gaseous, ringed, and have many moons (again, the exception is Pluto, the dwarf planet, which is small, rocky, and has four moons).

https://www.enchantedlearning.com/subjects/astronomy/planets/

- 11. The phenomenon of Aurora Borealis, the display of red and green lights in northern hemisphere is due to the radiations from
 - (a) Ionosphere
- (b) Troposphere
- (c) Mesosphere
- (d) Stratosphere

Ans: (a

Note: Ionosphere - The phenomenon of Aurora Borealis, the display of red and green lights in northern hemisphere is due to radiations from Ionosphere. The aurora borealis of the Northern Hemisphere is often called the northern lights, and the aurora australis of the Southern Hemisphere is known as the southern lights.

- Spring tides occur on new moon and full moon days because on these days
- (a) Sun, moon and earth are in a straight line
- (b) Sun and earth are at right angles
- (c) Sun and moon are at right angles
- (d) Earth and moon are at right angles

Ans: (a)

Note: "Spring tides occur twice each lunar month all year long without regard to the season. Neap tides, which also occur twice a month, happen when the sun and moon are at right angles to each other.

Tides are long-period waves that roll around the planet as the ocean is "pulled" back and forth by the gravitational pull of the moon and the sun as these bodies interact with the Earth in their monthly and yearly orbits.

During full or new moons—which occur when the Earth, sun, and moon are nearly in alignment—average tidal ranges are slightly larger. This occurs twice each month. The moon appears new (dark) when it is directly between the Earth and the sun. The moon appears full when the Earth is between the moon and the sun. In both cases, the gravitational pull of the sun is "added" to the gravitational pull of the moon on Earth, causing the oceans to bulge a bit more than usual. This means that high tides are a little higher and low tides are a little lower than average. These are called **spring tides**, a common historical term that has nothing to do with the season of spring. Rather, the term is derived from the concept of the tide "springing forth." Spring tides occur twice each lunar month all year long, without regard to the season.

Seven days after a spring tide, the sun and moon are at right angles to each other. When this happens, the bulge of the ocean caused by the sun partially cancels out the bulge of the ocean caused by the moon. This produces moderate tides known as **neap tides**, meaning that high tides are a little lower and low tides are a little higher than average. Neap tides occur during the first and third quarter moon, when the moon appears "half full."

https://oceanservice.noaa.gov/facts/springtide.html#:~:text=season%20of%20spring.-Rather%2C%20the%20term%2(is %20derived%20from%20the%20concept%20of%

20the,right%20angles%20to%20each%20other

- 13. The lunar eclipse occurs when
 - (a) Moon is between the earth and the sun
 - (b) Earth is between the sun and the moon
 - (c) Sun is between the earth and the moon
 - (d) Earth is at right angle to the direction of the sun and the moon

Ans: (b)

Note: Sun position is always fixed.

- 14. During a solar eclipse, which of the following represents, the relative position of the Sun, Moon and Earth correctly?
 - (a) The Sun in between the Earth and the Moon

- (b) The Earth in between the Sun and the Moon
- (c) The Moon in between the Sun and the Earth
- (d) The Sun, Moon and Earth are not in a straight line

Ans: (c)

Note: Sun position is always fixed.

- Peraylon, 15. From north to south the correct sequence of the following sea ports is
 - (a) Chennai, Tuticorin, Visakhapatnam, Paradip
 - (b) Paradip, Chennai, Visakhapatnam, Tuticorin
 - (c) Visakhapatnam, Paradip, Chennai, Tuticorin
 - (d) Paradip, Visakhapatnam, Chennai, Tuticorin

Ans: (d)

Note: There are seven major port located on the east coast of India i.e. Tuticorin (Tamil Nadu), Chennai (Tamil Nadu), Ennore (Tamil Nadu), Visakhapatnam (Andhra Pradesh), Paradip (Odisha), Haldia& Kolkata (West Bengal), and Port Blair (Andaman & Nicobar Island).

There are six major ports located at west coast of India i.e. Kandla Port (Gujarat), Mumbai (Maharashtra), Navasheva (Jawaharlal Nehru Port), Murmagoa, New Mangalore (Karnataka), and Kochi (Kerala).

10° on cale of b. 1. An increase of 10° on the centigrade scale produces a corresponding increase on the

c. 22°

d. 14°

Note: kelvin: in the International System of Units, the base unit of thermodynamic temperature; 1/273.16 of the thermodynamic temperature of the triple point of water; symbolized as K

- **absolute zero**: The coldest possible temperature: zero on the Kelvin scale and approximately -273.15°C and -459.67°F. The total absence of heat; the temperature at which motion of all molecules would cease.
- **standard atmosphere**: an international reference pressure defined as 101.325 kPa and formerly used as a unit of pressure
- The Fahrenheit system puts the boiling and freezing points of water exactly 180 degree apart. Therefore, a degree on the Fahrenheit scale is 1/180 of the interval between the freezing point and the boiling point.

 $T_{Celsius} = T_{Kelvin} - 273.15TCelsius = T_{Kelvin} - 273.15$.

- **brine**: a solution of salt (usually sodium chloride) in water
- The Kelvin scale is used extensively in scientific work because a number of physical quantities, such as the volume of an ideal gas, are directly related to absolute temperature.

KEY TERMS

absolute zero: The coldest possible temperature: zero on the Kelvin scale and approximately - 273.15°C and -459.67°F. The total absence of heat; the temperature at which motion of all molecules would cease.

• **Triple point**: The unique temperature and pressure at which the solid, liquid and gas phases of a substance are all in equilibrium.

https://courses.lumenlearning.com/by undless-physics/chapter/temperature-and-temperature-scales/

- 17. Vitamin K helps in
 - a. Clotting of blood

b. Development of bones

Keeps away sterility

d. None of these

Ans: a.

Note: Vitamin K helps to make various proteins that are needed for blood clotting and the building of bones. Prothrombin is a vitamin K-dependent protein directly involved with blood clotting. Osteocalcin is another protein that requires vitamin K to produce healthy bone tissue.

The body needs vitamin K to produce prothrombin, a protein and clotting factor that is important in blood clotting and bone metabolism. People who use blood-thinning medications, such as warfarin, or Coumadin, should not start consuming additional vitamin K without first asking a doctor.

Deficiency is rare, but, in severe cases, it can increase clotting time, leading to hemorrhage and excessive bleeding.

eks/Uply Vitamin K1, or phylloquinone, comes from plants. It is the main type of dietary vitamin K. A lesser source is vitamin K2, or menaquinone, which occurs in some animal-based and fermented foods.

https://www.medicalnewstoday.com/articles/219867

18. With reference to solar system, choose the incorrect combination

a. Largest Planet

- Jupiter

b.Brightest Planet -

c. Fastest Planet

- Earth

d. Nearest Planet to the Sun-Mercury

Ans: c

19. Which one of the following elements ores is not correctly in

a. Bauxite

- Aluminium

b. Haematite

c. Galena

- Lead

Ans: d

Note: Monazite is a primarily reddish-brown phosphate mineral that contains rare-earth elements.

20. Which one of the following pairs of unit and the parameter being measured is not correctly matched?

a. Cusec- Rate of

b. Byte - Computer memory

c. Richter scale - Intensity of earthquakes

d. Pascal - Pressure

Note:Cusec is a measure of the rate of flow still commonly used by the irrigation department. 1 cusec is one cubic foot of water flow per second. It translates into 28.32 litre of water per second.

- Choose the incorrect combination
 - a. Baking soda Sodium bicarbonate
 - b. Bleaching powder Sodium hypochlorite

- Calcium carbonate c. Limestone

- Solid carbon monoxide d. Dry ice

Ans: b

Note: Bleaching powder is a pale yellowish powder existing with a strong smell of chlorine. It is soluble in water but due to the presence of impurities, we never observe a clear solution. Its chemical formula is CaOCl_2 with its chemical name as Calcium hypochlorite

22. All of the following diseases are caused by viruses, except

a. AIDS

b. Influenza

c. Typhoid

d. Mumps

Ans: c

Note:Jaundice is a condition in which the skin, whites of the eyes and mucous membranes turn yellow because of a high level of bilirubin, a yellow-orange bile pigment. **Jaundice** has many causes, including hepatitis, gallstones and tumors. In adults, **jaundice** usually doesn't need to be treated

Influenza, commonly known as "the flu", is an infectious disease caused by an **influenza** virus. Symptoms can be mild to severe. The most common symptoms include: high fever, runny nose, sore throat, muscle and joint pain, headache, coughing, and feeling tired

• Usually, Salmonellae typhi bacteria causes typhoid fever.

Mumps is a viral infection that primarily affects saliva-producing (salivary) glands that are located near your ears. **Mumps** can cause swelling in one or both of these glands.

23. Let the speed of sound in air, water and steel be V_a , V_w , and V_i respectively. Which is correct order of decreasing velocity of sound in these media?

a. V_a>V_w>V

b. $V_w > V_i > V_z$

 $c.\ V_i\!\!>\!\!V_a\!\!>\!\!V_w$

d. $V_i > V_w > V_s$

Ans: a

24. Chain reaction in a nuclear reactor is controlled by

a. Moderato

b. Active hydrogen

c. Isotope

d. Control rods

Ans: c

25. For an object thrown from the earth, the minimumspeed required to escape from the gravitational pull is

a. 11.1 km/s

b. 11.2 km/s

c. 11.3 km/s

d. 11.4 km/s

Ans: b

26. With reference to solar system, choose the incorrect combination

a. Largest Planet

- Jupiter

b. Brightest Planet -

Venus

c. Fastest Planet

- Earth

d. Nearest Planet - Mercury

Ans: c

Note: Mercury is the smallest and fastest planet in the solar system. It is also the closest planet to the sun. It is named after the Roman messenger god Mercury, the fastest Roman god. The planet Mercury was known by ancient people thousands of years ago. It has no

- space nearly what part of

 (d) One-half 27. The top atmosphere of the Earth directly reflects back into the total amount of sun's energy to it?
 - (a) One-tenth
- (b) One-fifth
- (c) One-third

Ans: (c)

Note: The Earth absorbs most of the energy reaching its surface, a small is reflected. In total approximately 70% of incoming radiation is absorbed by the atmosphere and the Earth's surface while around 30% is reflected back to space and does not heat the surface. Egncg

- 28. Epiglottis helps in preventing
 - (a) Food from entering the larynx
 - (b) Air from entering the larynx
 - (c) Air from entering the oesophagus
 - (d) Food from entering the oesophagu

Ans: (a)

Note: It works as a valve to prevent food and liquids from entering your windpipe when you eat and drink.

- 29. Who discovered the **groups** of man?
 - (a) Edward Jenner

- (b) Larven
- (d) William Harvey

Note: After discovery of the first human blood groups (ABO) by Karl Landsteiner in 1901 (5), gradually from 1927, other blood groups were also discovered and reported

- Nobel prize for decoding and projecting the genetic code was given to
 - (a) HargobindKhurana
- (b) Watson and Crick

(c) Strasburger

(d) None of the above

Ans: (a)

Note: Khorana, together with Robert Holley (structure of tRNA) and Marshall Nirenberg, received the Nobel Prize in Physiology or Medicine in 1968 for their work on deciphering the genetic code SWOM

- 31. Sparkling red colour after the blast of fire crackers is due to the presence of
 - (a) Strontium

(b) Sodium

(c) Sulphur

(d) Magnesium

Ans: (a)

Note: Sparkling red colour after the blast of fire crackers is due to the presence of Strontium. Chemical ingredients of fireworks are chosen to produce specific colors. Barium compounds produce green colors when heated, copper salts produce green and blue flames, sodium salts are yellow in flame, lithium compounds produce red colors, magnesium metal produces brilliant white light when burned, and strontium compounds produce brilliant red colors. Salts used contain both metallic cations and nonmetallic arrons. Anions such as chlorates, perchlorates, and nitrates also contribute oxidizing power to the chemical mixture. 31 Egil

| Chemical Element | Color Produced |
|-------------------------|----------------|
| Chemical Element | Color Produced |

Sodium Yellow

Barium Green

Strontium red

Copper Blue

•-Ge/Fireworks.html#ixzz6i5WrbRnH http://www.chemistryexplained.

http://www.chemistryexplain.d.com/Fe-Ge/Fireworks.html

- 32. The chief ingredient of the mosquito repellent cream is derived from
 - (a) Tulsi
- (b) Neem
- (c) Lemon
- (d) Rice Bran

Note: This material is an herbal extract **derived** from the citronella plant, an Asian grass

- Very small time intervals are accurately measured by the
 - (a) Pulsars
- (b) White dwarfs
- (c) Atomic clocks
- (d) Quartz clocks

Ans: (c)

Note: Atomic clocks are the most accurate time and frequency standards known, and are used standards for international time distribution services, the wave frequency of television broadcasts, and in global navigation satellite systems such as GPS

34. Atmospheric pressure exerted on earth is due to the

(a) Rotation of earth

- (b) Revolution of earth
- (c) Gravitational pull on air mass
- (d) Uneven heating of earth

Ans: (c)

Note: Atmospheric pressure is commonly measured with a barometer. In a barometer, a column of mercury in a glass tube rises or falls as the weight of the atmosphere changes. Meteorologists describe the atmospheric pressure by how high the mercury rises.

An atmosphere (atm) is a unit of measurement equal to the average air pressure at sea level at a temperature of 15°C (59°F). One atmosphere is 1,013 millibar, or 760 millimeter (29.92 inche) of mercury. Atmospheric pressure drops as altitude increases. As the pressure decreases, the amount of oxygen available to breathe also decreases. At very high altitudes, atmospheric pressure and available oxygen get so low that people can become sick and even die. Mountain climbers use bottled oxygen when they ascend very high peaks. They also take time to get used to the altitude because quickly moving from higher pressure to lower pressure can cause decompression sickness. Decompression sickness, also called "the bends", is also a problem for scuba divers who come to the surface too quickly.

Aircraft create artificial pressure in the cabin so passengers remain comfortable while flying.

Atmospheric pressure is an indicator of weather. When a low-pressure system moves into an area, it usually leads to cloudiness, wind, and preopitation. High-pressure systems usually lead to fair, calm weather.

https://www.nationalgeographic.org/encyclopedia/atmospheric-pressure/#:~:text=force%20per%20unit%20ar-a%20exerted,gravity%20pulls%20it%20to%20E arth.&text=an%20instrument%20that%20 measures%20atmospheric%20pressure.&text=scale%20for%20measuring%20surface%20temperature,of%20water%20is%20100%20degrees.

- 35. Preservative used for strawberries and plum squashes is
 - (a) Sodium chloride

(b) Sodium benzoate

(c) Sodium nitrate

(d) Ammonium sulphate

Ans (b)

- 36. All the veins carry de-oxygenated blood, except
 - (a) Hepatic vein

(b) Portal vein

(c) Pulmonary vein

(d) Subclavian vein

Ans: (c)

Note: Veins carry deoxygenated blood towards to heart from tissue, with the exception of the **pulmonary veins**, which carry oxygenated blood from the lungs to the heart.

37. Which of the following satellites helps telecast TV network programmes all over the country?

| | | sssiep | <u>com</u> | | | |
|-------|--|--|---|------------------------|--|--|
| | (a) Aryabhatta | (b) Apple | (c) INSAT-1B | (d) Rohini | | |
| | Ans: (c) | | | | | |
| Satel | lite television now o | covers 100% area and | ne expansion of televis 100% population. The er 92 percent of the pop | e terrestrial coverage | | |
| 38. | Epidemiology mea | nns | | | | |
| | (a) Study of epider | mic disease | (b) Study of deficie | ency disease | | |
| | (c) Study of medicine | | (d) None of these | | | |
| | Ans: (a) | | | α | | |
| new o | Railways was intro | oduced to India by | 49/10 | | | |
| | (a) Lord Curzon | (b) Lord Bentinck | (c) Lord Cornwalli | s (d) Lord Dalhous | | |
| | Ans: (d) | 80 | | | | |
| | • | On this date, the cour 's Bori Bunder station | ntry's first passenger tr and Thane. | ain set off on a 34l | | |
| 40. | In a cell which of the following is the site of protein synthesis? | | | | | |
| | (a) Mitochondria | <i>(C)</i> | (b) Endoplasmic R | eticulum | | |
| | (c) Ribosomes | | (d) Nucleus | | | |
| | Ans: (c) | | | | | |
| Note | : Ribosomes. Riboso | omes are the sites in a | cell in which protein s | ynthesis takes place. | | |
| 41. | The saliva helps in | the digestion of | | | | |
| 5 | (a) Starch | (b) Proteins | (c) Fibres | (d) Fats | | |
| | Ans: (a) | | | | | |

Note: Saliva contains special enzymes that help digest the starches in your food. An enzyme called amylase breaks down starches (complex carbohydrates) into sugars, which your body can more easily absorb. Saliva also contains an enzyme called lingual lipase, which breaks down fats

42. The world environment day is celebrated on

| | (a) 7 Aprıl | (b) 5 June | (c) 16 June | (d) 6 August |
|--|---|---|--|--|
| | Ans: (b) | | | |
| first da adopte Since i for rais | ay of the Stockh d by the General its beginning in 1 sing awareness ar | olm Conference on Assembly the same 974, World Environr | the Human Environmeday, leads to the creationent Day has developed argent issues from mark | nment Day, marking the ent. Another resolution, on of UN Environment. d into a global platform ne pollution and global |
| 43. | At which of the f 15th century? | following ports did Va | sco de Gama land in In | dia at the close of the |
| | (a) Bombay | (b) Calicut | (c) Chitagong | (d) Pondicherry |
| | Ans: (b) | | • | |
| | | er Vasco de Gama be arrives at Calicut on t | | nn to reach India via the |
| award notable in biole | in India given ann e and ogy, chemistry, en | nually by the Council outstanding | of Scientific and Indust ng research, | plogy (SSB) is a science rial Research (CSIR) for applied or fundamental, |
| of 45 y | vears is eligible fo | or the prize. The prize | • | echnology up to the age is of contributions made ear of the prize. |
| 45. | What is the curren | ncy of Japan? | | |
| 5 | (a) Yuan | (b) Dollar | (c) Yen | (d) Rouble |
| | Ans: (c) | | | |
| 46. | The Home Rule | Movement in India wa | s started by | |
| Ans: (c) 46. The Home Rule Movement in India was started by (a) Annie Besant, in Chennai and B G Tilak in Maharastra (b) Annie Besant and Gokhale | | | | |
| | (b) Annie Besant | and Gokhale | | |
| | (c) Mahatma Gan | dhi and Motilal Nehru | 1 | |

(d) S.N. Banerjee and W.C. Bonerjee

Ans: (a)

Note: B G Tilak found the first **home rule** league at the Bombay provincial congress at Belgaum in April 1916. Then after this **Annie Besant founded** second league at Adyar, Chennai (old name Madras) Annie Besant launched the Home Rule League in September 1916 at Madras.

The term, borrowed from a similar movement in Ireland, referred to the efforts of Indian nationalists to achieve self-rule from the British Indian government.

- 47. One cubic centimetre of brass, when fully immersed in water (density 1 gram/cm³ weighs 7.6 gram. What is the density of the brass?
 - (a) 1.0 gram/cm^3

(b) 6.6 gram/cm³

(c) 7.6 gram/cm^3

(d) 8.6 gram/cm

Ans: (d) For fully immersed body:

Note: Actual Mass = mass in immersed fluid + numerical value of density of fluid

- 48. Which of the following is used as a food preservative?
 - (a) Sodium benzoate

(b) Sodium perborate

(c) Citric acid

(d) None of the above

Ans: (a)

- 49. When did India conduct its first Nuclear explosion at Pokhran, Rajasthan?
 - (a) April 10, 1974

(b) April 18, 1974

(c) May 10, 1974

(d) May 18, 1974

Ans: (d

50. Which of the following is not an alloy?

(a) Bronze

(b) Zinc

(c) Brass

(d) Steel

Ans: (b). Zinc is an element. (Bronze is an alloy of copper and tin, brass is copper and zinc.)