



## Reliance International Academy

Sarawsotinagar, Kathmandu

Phone No.: - 4812445/4822336

**Model Questions – 2077**

Stream: - Science

### Science

- Acceleration due to gravity is Maximum.....
  - At the top of the Mt. Everest
  - At the pole
  - At the equator
  - At the surface of the earth
- The ratio of velocity of light to the velocity of sound in air is about....
  - $1.9 \times 10^5$
  - $3 \times 10^8$
  - $2.1 \times 10^5$
  - $9.1 \times 10^5$
- How much heat is required to raise the temperature of 10 Kg of water by  $10^\circ\text{C}$  ?
  - 100 Joule
  - 4200 Joule
  - 1000 Joule
  - 420000 Joule
- If  $\vec{P} \cdot \vec{Q} = |\vec{P} \times \vec{Q}|$  then the angle between  $\vec{P}$  and  $\vec{Q}$  is
  - $30^\circ$
  - $40^\circ$
  - $45^\circ$
  - $60^\circ$
- Acceleration of an object increases with increase in
  - Velocity
  - Mass
  - Distance
  - force
- If the speed of body is increases by 1.5 times, then kinetic energy of the body increases by.....
  - 1.5 times
  - 3 times
  - 2.25 times
  - 3.25 times
- Unit of specific heat capacity is
  - Joules
  - Calorie
  - Joule/kg/ $^\circ\text{C}$
  - Calorie/ gram
- What is the power of convex lens whose focal length is 25cm?
  - + 2D
  - 2D
  - + 4D
  - 4D
- Which of the following is edible alcohol?
  - Methyl alcohol
  - Ethyl alcohol
  - Propyl alcohol
  - Both a and b
- Which one of the following compound is used as anaesthetic reagent in surgical operation?
  - Alcohol
  - Ether
  - Benzene
  - butane
- Which compound is obtained by passing  $\text{CO}_2$  gas into lime water for along time?
  - $\text{CaCO}_3$
  - $\text{Ca}(\text{HCO}_3)_2$
  - $\text{Ca}(\text{OH})_2$
  - $\text{CaO}$
- The gas used in aerated drinks (soft- drinks)
  - $\text{NH}_2$
  - $\text{H}_2$
  - $\text{CO}_2$
  - $\text{N}_2$
- Alkaline earth metals are placed in ..... group of the periodic table.
  - VIIA
  - IIA
  - IA
  - IVA
- The correct electronic configuration of Cu is .....
  - $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^1$
  - $1s^2 2s^2 2p^6 3s^2 3p^6 3d^9 4s^2$
  - $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2 4p^1$
  - $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2$
- What is the molecular formula of laughing gas?
  - $\text{N}_2\text{O}_3$
  - $\text{N}_2\text{O}_5$
  - $\text{N}_2\text{O}$
  - $\text{N}_2\text{O}_4$
- What is scientific name of frog?
  - Rana tigrina
  - Bufo melanostictus
  - Rhacophorus
  - Pipa pipa
- Synthesis of ATP occurs is .....
  - mitochondria
  - golgi bodies
  - ribosomes
  - lysosomes
- Prokaryotic cells are .....
  - Seen in higher plants
  - Dead cells
  - Cells with no true nucleus
  - Cells with with ture nucleus
- Prothallus of fern represents.....
  - Sporophyte
  - Gametophyte
  - Both sporophyte and gametophyte
  - None of them
- Pairing of chromosomes is known as .....
  - Crossing over
  - Cytokinesis
  - Synapsis
  - None of them