

**CADET COLLEGE PETARO**  
**ENTRY TEST 2014 FOR ADMISSION TO PRE O-LEVEL**  
**GENERAL SCIENCE**

Time 01 Hour

Max Marks: 100

**SECTION-A**

**Marks-30**

**Mark the correct response. Each question carries 02 Marks.**

1. When we through an object upward, after covering certain height object falls back on the ground. Which of the following force is responsible for the downward motion of the object?  
A) Frictional force    B) Gravitational force    C) Resistive force    D) Nuclear force
2. A force which always opposes the motion of an object is called:  
A) Gravitational force    B) Frictional force    C) Forward force    D) Balance force
3. Which of the following quantities has same unit as force?  
A) Work done    B) Weight    C) Torque    D) Pressure
4. SI unit of time is second. Which of the following is the correct symbol of mili seconds?  
A) Ms    B) MS    C) ms    D) mS
5.  $10^{-6}$  stands for;  
A) milli    B) mega    C) micro    D) giga
6. 11. correct scientific notation of 0.0001 is:  
A)  $1 \times 10^3$     B)  $1 \times 10^4$     C)  $1 \times 10^{-3}$     D)  $1 \times 10^{-4}$
7. 12. SI unit of temperature is:  
A) Centigrade    B) Celsius    C) Fahrenheit    D) Kelvin
8. A pair of scissors is an example of?  
A) First kind of lever    B) Second kind of lever    C) third kind of lever    D) None of these
9. Efficiency of a machine can be defined as:  
A) Input / Output    B) Output / Input    C) Output-Input / Input    D) Output-Input / Output
10. When a spring is compressed, what form of energy does it possess?  
A) Kinetic    B) Potential    C) Heat    D) All of these
11. Normal body temperature of human beings is:  
A)  $98.5^{\circ}\text{C}$     B)  $98.5^{\circ}\text{F}$     C)  $100^{\circ}\text{C}$     D)  $100^{\circ}\text{F}$
12. Which of the following is transparent?  
A) Wood    B) Silver    C) Soil    D) Air
13. Which of the following is the main source of energy?  
A) Moon    B) Sun    C) Factories    D) Fire
14. What is main property of sound by which we can distinguish between male and female voice?  
A) Loudness    B) Energy    C) Pitch    D) Quality
15. Glowing bulb is an example of:  
A) Open circuit    B) Close circuit    C) Simple circuit    D) Complex circuit

**SECTION-B****Marks-30****Mark the correct response. Each question carries 02 Marks.**

- Ice floats in water because it is  
(A) More dense than water. (B) Colder than water.  
(C) Less dense than water. (D) Warmer than water.
- The average weight of atoms of an element as compared to the weight of one atom of carbon taken as 12 is called \_\_\_\_  
(A) Atomic Number (B) Atomic Mass (C) Molecular Mass (D) Formula Mass
- Proton is \_\_\_\_\_times heavier than an electron  
(A) 1637 (B) 1837 (C) 1937 (D) 1742
- The solution prepared in water is called \_\_\_\_\_solution.  
(A) Molar (B) Molal (C) Aqueous (D) Dilute
- pH meter is invented by \_\_\_\_\_  
(A) Goldstein (B) Sorenson (C) J.J Thomson (D) S.A Arrhenius
- Modern Classification of elements is based on \_\_\_\_\_.  
(A) Doberiner's law of Triads. (B) Newlands' law of Octaves.  
(C) Mendeleev's Periodic Table. (D) None of these
- Which of the following has high average kinetic energy?  
(A) Solid (B) Liquid (C) Gas (D) Plasma
- Total number of protons and neutrons in the center of nucleus of an atom is called as \_\_\_\_  
(A) Atomic Number (B) Mass Number (C) Molecular Mass (D) Formula Mass
- Electrons were discovered by \_\_\_\_\_.  
(A) Goldstein (B) Crooks  
(C) J.J Thomson (D) Bohar
- What is the formula of Washing Soda?  
(A) NaOH (B) NaHCO<sub>3</sub> (C) Na<sub>2</sub>CO<sub>3</sub> (D) Ca(OH)<sub>2</sub>
- What is the formula of Chalk?  
(A) MgCO<sub>3</sub> (B) MgCO<sub>3</sub>. CaCO<sub>3</sub> (C) MgCl<sub>2</sub> KCl .6H<sub>2</sub>O (D) CaCO<sub>3</sub>
- The process of purification and separation of various fractions of petroleum by fractional distillation is called\_\_\_\_\_  
(A) Distillation (B) Hydrogenation  
(C) Refining (D) Chromatography
- What is the main constituent of Natural gas ?  
(A) Methane (B) Ethane (C) Propane (D) Butane
- What is the mass of one mole of carbon-12?  
(A) 0.012 g (B) 0.024 g (C) 1 g (D) 12 g
- When ice melts to form water, energy  
(A) is created. (B) is released. (C) is destroyed. (D) is absorbed.

